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(Also referred to as FORM PTO-1485)

**REQUEST FOR EX PARTE REEXAMINATION TRANSMITTAL FORM**

Address to:

Mail Stop Ex Parte Reexam  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Attorney Docket No.: \_\_\_\_\_

Date: August 25, 2010

1.  This is a request for ex parte reexamination pursuant to 37 CFR 1.510 of patent number 5,541,206 issued July 30, 1996. The request is made by:
 

patent owner.  third party requester.
2.  The name and address of the person requesting reexamination is:  
Public Patent Foundation  
55 Fifth Avenue, Suite 928  
New York, NY 10003
3.  a. A check in the amount of \$\_\_\_\_\_ is enclosed to cover the reexamination fee, 37 CFR 1.20(c)(1);  
 b. The Director is hereby authorized to charge the fee as set forth in 37 CFR 1.20(c)(1) to Deposit Account No. \_\_\_\_\_; or  
 c. Payment by credit card. Form PTO-2038 is attached.
4.  Any refund should be made by  check or  credit to Deposit Account No. \_\_\_\_\_ 37 CFR 1.26(c). If payment is made by credit card, refund must be to credit card account.
5.  A copy of the patent to be reexamined having a double column format on one side of a separate paper is enclosed. 37 CFR 1.510(b)(4)
6.  CD-ROM or CD-R in duplicate, Computer Program (Appendix) or large table
 

Landscape Table on CD
7.  Nucleotide and/or Amino Acid Sequence Submission  
*If applicable, items a. – c. are required.*
  - a.  Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM (2 copies) or CD-R (2 copies); or
    - ii.  paper
  - c.  Statements verifying identity of above copies
8.  A copy of any disclaimer, certificate of correction or reexamination certificate issued in the patent is included.
9.  Reexamination of claim(s) 1-19 is requested.
10.  A copy of every patent or printed publication relied upon is submitted herewith including a listing thereof on Form PTO/SB/08, PTO-1449, or equivalent.
11.  An English language translation of all necessary and pertinent non-English language patents and/or printed publications is included.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.510. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Ex Parte Reexam, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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12.  The attached detailed request includes at least the following items:

- a. A statement identifying each substantial new question of patentability based on prior patents and printed publications. 37 CFR 1.510(b)(1)
- b. An identification of every claim for which reexamination is requested, and a detailed explanation of the pertinency and manner of applying the cited art to every claim for which reexamination is requested. 37 CFR 1.510(b)(2).

13.  A proposed amendment is included (only where the patent owner is the requester). 37 CFR 1.510(e)14.  a. It is certified that a copy of this request (if filed by other than the patent owner) has been served in its entirety on the patent owner as provided in 37 CFR 1.33(c).

The name and address of the party served and the date of service are:

Paul D. Yasger, Abbott Laboratories100 Abbott Park Road, Dept. 377/AP6AAbbott Park, IL 60064-6008Date of Service: August 25, 2010; or

- b. A duplicate copy is enclosed because service on patent owner was not possible. An explanation of the efforts made to serve patent owner is attached. See MPEP 2220.

## 15. Correspondence Address: Direct all communications about the reexamination to:

- The address associated with Customer Number: \_\_\_\_\_

OR

Firm or  
Individual Name Public Patent Foundation

## Address

55 Fifth Avenue, Suite 928

City <u>New York</u>	State <u>NY</u>	Zip <u>10003</u>
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Country <u>USA</u>
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Telephone <u>(212) 790-0442</u>	Email <u>info@pubpat.org</u>
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16.  The patent is currently the subject of the following concurrent proceeding(s):

- a. Copending reissue Application No. \_\_\_\_\_
- b. Copending reexamination Control No. \_\_\_\_\_
- c. Copending Interference No. \_\_\_\_\_
- d. Copending litigation styled: \_\_\_\_\_

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Daniel B. Ravicher

Authorized Signature

Daniel B. Ravicher

Typed/Printed Name

August 25, 2010

Date

47,015  For Patent Owner RequesterRegistration No.  For Third Party Requester

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT NO.: 5,541,206

ISSUED: Jul. 30, 1996

TO: Kempf et al.

FOR: RETROVIRAL PROTEASE INHIBITING COMPOUNDS

ATTACHMENT TO FORM PTO/SB/57,  
REQUEST FOR EX PARTE REEXAMINATION

SIR:

The Public Patent Foundation (“PUBPAT”), a not-for-profit public service organization that works to protect the public from the harms caused by undeserved patents and unsound patent policy, respectfully requests *ex parte* reexamination under 35 U.S.C. §§ 302-307 and 37 C.F.R. § 1.510 of every claim of United States Patent No. 5,541,206 issued July 30, 1996 to Kempf et al. and assigned to Abbott Laboratories (“the ‘206 patent”) because they are all invalid under 35 U.S.C. §§ 102 and 103 and their existence is causing significant public harm.<sup>1</sup>

THE '206 PATENT IS CAUSING SIGNIFICANT PUBLIC HARM

HIV/AIDS is one of the greatest threats to public health faced by the world today. As of the end of 2008, over 33 million people worldwide were living with HIV/AIDS,<sup>2</sup> including more

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<sup>1</sup> A copy of the '206 patent is attached hereto as Appendix A.

<sup>2</sup> <http://www.avert.org/worldstats.htm>, last visited August 3, 2010.

than one million Americans.<sup>3</sup> Every person afflicted with HIV/AIDS has the right to obtain the best medical treatment available without any improper obstacles placed in their way. More specifically, American men, women, and children suffering from HIV/AIDS are entitled to access the best pharmaceutical treatments available without undeserved patents making those treatments either too expensive or too limited in supply.

Ritonavir is a retroviral protease inhibitor that is a significant treatment for HIV/AIDS patients. Today it is widely used as a booster for other protease inhibitors. Abbott Laboratories is the sole distributor of ritonavir in the United States (under the brand name Norvir) and is using the '206 patent – and seven other patents for which requests for reexamination are being filed concurrently herewith – to prevent anyone else from offering ritonavir to HIV/AIDS patients in the United States.<sup>4</sup> Not only is the '206 patent being used to deny American HIV/AIDS patients fair access to the medical treatment that they need and deserve; it is also a barrier to further research on ritonavir here in the United States because there is no exception to patent infringement for such research. In these ways, the '206 patent is unquestionably causing significant public harm to the American people. Although these issues are not grounds to grant this request for reexamination, PUBPAT respectfully requests that they be considered when determining whether the validity of the '206 patent merits review by your office.

### **THE SUBSTANTIAL NEW QUESTIONS OF PATENTABILITY**

1. Whether claims 1-19 of the '206 patent were anticipated or rendered obvious by U.S.

Patent No. 5,142,056 to Kempf et al. issued on August 25, 1992 ("056 patent");

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<sup>3</sup> <http://www.avert.org/usa-statistics.htm>, last visited August 3, 2010.

<sup>4</sup> Approved Drug Products with Therapeutic Equivalence Evaluations, Food and Drug Administration ("Orange Book"), Application Number. N022417 (Approval Date February 10, 2010).

2. Whether claims 1-19 of the '206 patent were anticipated or rendered obvious by EP 337714A2, to Sigal et al. published on October 18, 1989 ("Sigal"); and
3. Whether claims 1-19 of the '206 patent were anticipated or rendered obvious by Ho et al., *Nature* vol. 375 Jan. 12, 1995 "Rapid Turnover of Plasma Virions and CD4 Lymphocytes in HIV-1 Infection" ("Ho").

These are new questions because neither the '056, Sigal nor Ho were cited as references, much less applied, during prosecution. A detailed explanation of the pertinency and manner of applying the cited patents and publications to the claims of the '206 patent is set forth below.<sup>5</sup>

#### **THE '056 PATENT ANTICIPATED OR RENDERED OBVIOUS THE '206 PATENT**

The '206 patent application was filed April 25, 1995. The applicants claimed priority to a series of applications, including application no. 07/998,114 (filed December 29, 1992) and application number 08/158,587 (filed December 2, 1993). However, the claims of the '206 patent are not entitled to those claims of priority because the specifications of those earlier applications were not sufficient to satisfy the written description requirement of 35 U.S.C. § 112 with respect to the nineteen claims of the '206 patent.

The Federal Circuit recently confirmed that the written description requirement is a separate statutory requirement from the best mode and enablement requirements. Ariad Pharmaceuticals, Inc. v. Eli Lilly and Co., 598 F.3d 1336, 1351 (Fed. Cir. 2010). To satisfy the written description requirement, a specification must describe the claimed invention so that one of ordinary skill in the art can recognize what is claimed. Further, sufficient detail must be included in the specification to show one of ordinary skill in the art that the applicant possessed

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<sup>5</sup> Appendix B contains a copy of the cited patents and publications.

the claimed invention at the time of the filing of the application.

In this case, the inventors did not possess the claimed invention at the time of filing of the claimed priority applications because the specifications lacked evidence that the claimed methods were effective *in vivo*. The only evidence of efficacy was *in vitro*, and no evidence of the correlation between the *in vitro* results and successful treatment in humans was provided. Many antiviral agents that provide exceptional results *in vitro* are ineffective *in vivo*. This principle is substantiated by a 1987 review article<sup>6</sup> indicating that *in vitro* testing performed on anti-viral compounds is useful as a screening tool but is not predictive of *in vivo* efficacy. The specifications of the purported priority applications lacked *in vivo* data supporting the efficacy of the claimed methods, which thus renders them insufficient to satisfy the written description requirement. Therefore, the '206 patent is not entitled to claim priority to those earlier applications. Thus, the effective filing date of the '206 patent is its specific filing date, April 25, 1995.

The '056 patent issued on August 25, 1992. Accordingly, the '056 patent is 102(b) prior art to the '206 patent. As explained below, the '056 patent renders each claim of the '206 patent invalid.

In 2007 the Federal Circuit specifically addressed the standard for obviousness in another case involving a pharmaceutical composition. In that case, Pfizer v. Apotex, the patented besylate salt of the compound amlodipine was held obvious over a prior art patent that claimed a genus of pharmaceutically acceptable salts of amlodipine even though it did not disclose the besylate salt. 480 F.3d 1348 (Fed. Cir. 2007). The besylate salt was found obvious despite the

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<sup>6</sup> Sandstrom et al., "Antiviral Therapy In AIDS: Clinical Pharmacological Properties and Therapeutic Experience to Date," Drugs 34: 373-390 (1987).

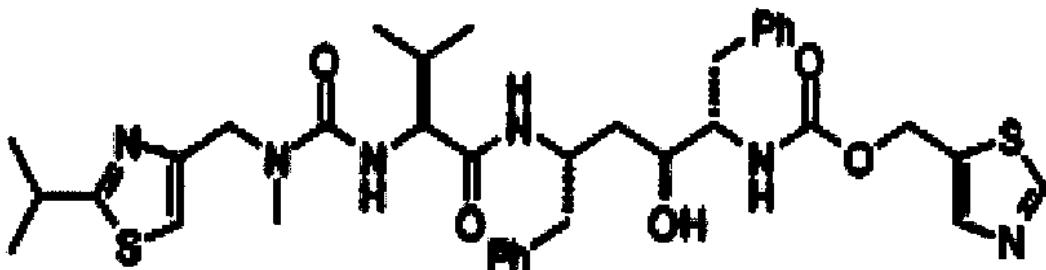
fact that none of the anions listed in the prior art patent had a cyclic structure as does besylate and it was undisputed that one cannot reliably predict the influence of a particular salt species on the behavior of a parent compound. The Federal Circuit's obviousness decision was based on the skilled artisan's motivation to combine prior art teachings to achieve the claimed invention and reasonable expectation of success. *Id.* at 1361. The Pfizer v. Apotex case is instructive as to the obviousness of the '206 patent over the '056 patent.

The '206 patent contains nineteen claims. The first thirteen recite a compound or one of a group of compounds or a pharmaceutically acceptable salt thereof. Claim 10 is representative and reads as follows:

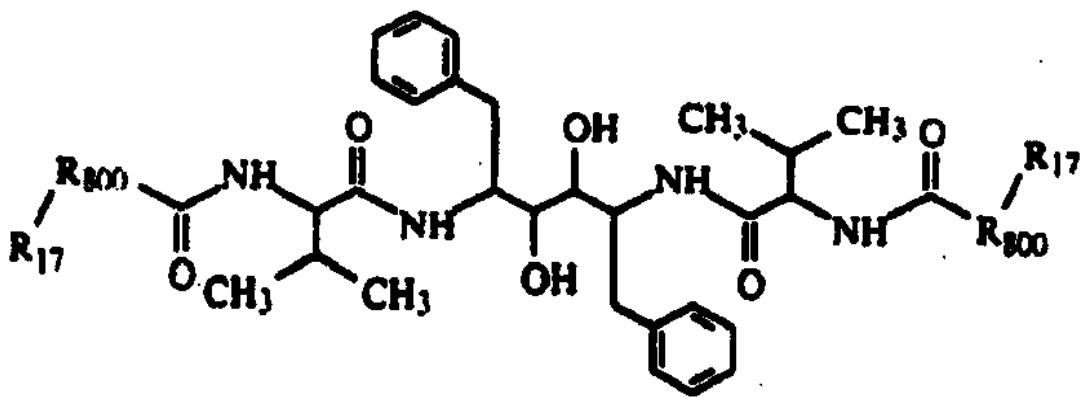
10. The compound (2S,3S,5S)-5-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)-methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; or a pharmaceutically acceptable salt thereof.

The remaining six claims are dependent and purport to cover pharmaceutical compositions and methods of inhibiting HIV protease and HIV infection using the some of the claimed compounds.

The compound of claim 10 is depicted as follows:



A compound disclosed in the '056 patent is depicted as follows:



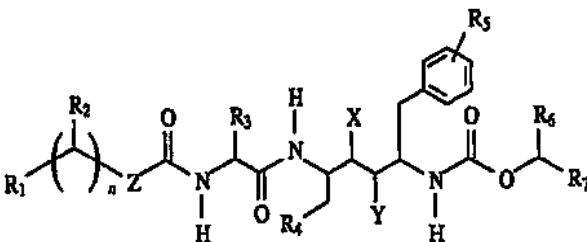
The claimed compound and the compound taught by the '056 patent have the same central substituent. Therefore, the '056 patent anticipates the claims of the '206 patent. The additional hydroxyl group described in the '206 patent is inherent in or obvious in light of the '056 patent compound.

The chart below sets forth a comparison of all nineteen claims of the '206 patent to the teaching of the '056 patent. In essence, the compounds claimed in the '206 patent represent a genus of or are rendered obvious by the class of compounds disclosed in the '056 patent. Although the '056 patent may not have explicitly disclosed the exact compounds recited in the '206 patent, each element of the '206 patent's claims is either inherent in or rendered obvious by the '056 patent's teachings. The '056 patent discloses compositions (col. 219) and methods (col. 220) of inhibiting HIV using the compounds it claims. Therefore each claim of the '206 patent is invalid and should be canceled.

'206 patent	'056 patent
1. A compound of the formula:	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 1, save one additional hydroxyl group. The equivalence of the central substituent having an additional

'206 patent	'056 patent
<p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1, 2, or 3;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> and R<sub>4a</sub> are independently selected from phenyl and substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted or substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p>	hydroxyl group was known in the art.

'206 patent	'056 patent
<p>X is hydrogen and Y is —OH ; and</p> <p>Z is absent, —O—, —S—, —CH<sub>2</sub>— or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>- loweralkyl or an N-protecting group selected from the group consisting of fibrmyl, acetyl, propionyl, pivaloyl, t-butylacetyl, 2-chloroacetyl, 2-bromoacetyl, trifluoroacetyl, trichloroacetyl, phthalyl, o-nitrophenoxyacetyl, α-chlorobutyryl, benzoyl, 4-chlorobenzoyl, 4-bromobenzoyl, 4-nitrobenzoyl, benzenesulfonyl, p-toluenesulfonyl, benzyloxycarbonyl, p-chlorobenzyloxycarbonyl, p-methoxybenzyloxycarbonyl, p-nitrobenzyloxycarbonyl, 2-nitrobenzyloxycarbonyl, p-dimethoxybenzyloxycarbonyl, 3,5-dimethoxybenzyloxycarbonyl, 2,4dimethoxybenzyloxycarbonyl, 4-methoxybenzyloxycarbonyl, 2-nitro-4,S-dimethoxybenzyloxycarbonyl, 3,4,S-trimethoxybenzyloxycarbonyl, 1 -(p-biphenylyl)1-methylethoxycarbonyl, αα-dimethyl-3,5-dimethoxybenzyloxycarbonyl, benzhydryloxycarbonyl, t-butyloxycarbonyl, diisopropylmethoxycarbonyl, isopropylloxycarbonyl, ethoxycarbonyl, methoxycarbonyl, allyloxycarbonyl, 2,2,2,-trichloroethoxycarbonyl, phenoxy carbonyl, 4-nitrophenoxy carbonyl, fluorenyl-9-methoxycarbonyl, cyclopentyloxycarbonyl, adamantlyloxycarbonyl, cyclohexyloxycarbonyl, phenylthiocarbonyl, benzyl, triphenylmethyl, benzyloxymethyl and trimethylsilyl; or a pharmaceutically acceptable salt thereof.</p>	
2. A compound of the formula:	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent

'206 patent	'056 patent
 <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> is phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>5</sub> is hydrogen, halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p>	<p>as the compound of claim 2, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.</p>

'206 patent	'056 patent
<p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted or substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>X is hydrogen and Y is —OH ; and</p> <p>Z is absent, —O—, —S—, —CH<sub>2</sub>— or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl; or a pharmaceutically acceptable salt thereof.</p>	
3. The compound of claim 2 wherein R <sub>2</sub> is hydrogen, R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen and R <sub>7</sub> is thiazolyl or oxazolyl.	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 3, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.
4. The compound of claim 3, wherein R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl.	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 4, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.
5. The compound of claim 2 wherein R <sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is C <sub>1</sub> -C <sub>6</sub> -loweralkyl; ; R <sub>2</sub> is hydrogen; R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen; R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —O— or —N-(R <sub>8</sub> )— wherein R <sub>8</sub> is C <sub>1</sub> -C <sub>6</sub> -loweralkyl.	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 5, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.

'206 patent	'056 patent
6. The compound of claim 2 wherein R <sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is ethyl or isopropyl; R <sub>2</sub> is hydrogen; R <sub>3</sub> is methyl or isopropyl; R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen; R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —O—.	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 6, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.
7. The compound of claim 2 wherein R <sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is ethyl or isopropyl; R <sub>2</sub> is hydrogen; R <sub>3</sub> is isopropyl; R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen; R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —N(R <sub>8</sub> )— wherein R <sub>8</sub> is methyl .	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 7, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.
8. (2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)-amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; or a pharmaceutically acceptable salt thereof.	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 8, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.
9. A compound selected from the group consisting of: (2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)-amino)carbonyl)alaninyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl 3-hydroxyhexane; (2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; (2S,3S,5S)-2-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-methoxycarbonyl)arnino)-1,6-diphenyl-3-hydroxyhexane; (2S,3S,5S)-5-(N-(N-((2-Isopropyl)-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 9, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.

'206 patent	'056 patent
<p>(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)-valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)-valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-isopropyl-4-oxazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; and</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	
<p>10. (2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 10, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.
<p>11. A compound of the formula:</p> <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or</p>	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 11, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.

'206 patent	'056 patent
<p>monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub>-cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub>-cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1, 2, or 3;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> and R<sub>4a</sub> are independently selected from phenyl and substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted and R<sub>3</sub> is C<sub>2</sub>-C<sub>6</sub>-loweralkyl and Z is absent, --O--, --S--, or --CH<sub>2</sub>--; or</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl and R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl and Z is absent, —O—, —S—, —CH<sub>2</sub>—; or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>-loweralkyl or an N-protecting group selected from the group consisting of formyl, acetyl, propionyl,</p>	

'206 patent	'056 patent
<p>pivaloyl, t-butylacetyl, 2-chloroacetyl, 2-bromoacetyl, trifluoroacetyl, trichloroacetyl, phthalyl, o-nitrophenoxyacetyl, <math>\alpha</math>-chlorobutyryl, benzoyl, 4-chlorobenzoyl, 4-bromobenzoyl, 4-nitrobenzoyl, benzenesulfonyl, p-toluenesulfonyl, benzyloxycarbonyl, p-chlorobenzyloxycarbonyl, p-methoxybenzyloxycarbonyl, p-nitrobenzyloxycarbonyl, 2-nitrobenzyloxycarbonyl, p-bromobenzyloxy carbonyl, 3,4-dimethoxybenzyloxycarbonyl, 3,5-dimethoxybenzyloxycarbonyl, 2,4-dimethoxybenzyloxycarbonyl, 4-methoxybenzyloxycarbonyl, 2-nitro-4,5-dimethoxy benzyloxycarbonyl, 3,4,5-trimethoxybenzyloxycarbonyl, l-(p-biphenylyl)-l-methylethoxycarbonyl, <math>\alpha,\alpha</math>-dimethyl-3,5-dimethoxybenzyloxy carbonyl, benzhydryloxycarbonyl, t-butyloxycarbonyl, diisopropylmethoxycarbonyl, isopropylloxycarbonyl, ethoxycarbonyl, methoxycarbonyl, allyloxycarbonyl, 2,2,2-trichloroethoxycarbonyl, phenoxy carbonyl, 4-nitrophenoxycarbonyl, fluorenyl-9-methoxycarbonyl, cyclopentyloxycarbonyl, adamantlyloxycarbonyl, cyclohexyloxycarbonyl, phenylthiocarbonyl, benzyl, triphenylmethyl, benzyloxymethyl and trimethylsilyl; and</p> <p>X is -OH and Y is hydrogen; or a pharmaceutically acceptable salt thereof.</p>	
<p>12. A compound of the formula:</p> <p>The chemical structure shows a central carbon atom bonded to four groups: a nitrogen atom (with an H atom), an R4 group, an X group, and a Y group. The nitrogen atom is also bonded to an R3 group. The R4 group is bonded to an R5 group, which is part of a benzylidene group. The X group is bonded to an R6 group, which is part of an acetoxy group (R6-C(=O)OR7). The Y group is bonded to an R7 group.</p>	<p>The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 12, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.</p>

'206 patent	'056 patent
<p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsibstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substttued as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> is phenyl or substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted and R<sub>3</sub> is C<sub>2</sub>-C<sub>6</sub>-loweralkyl and Z is absent, —O--, --S--, or --CH<sub>2</sub>--; or</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl and R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl and Z is absent, —O—, —S—, —CH<sub>2</sub>—; or — N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl; and</p>	<p>'056 patent</p>

'206 patent	'056 patent
X is -OH and Y is hydrogen; or a pharmaceutically acceptable salt thereof.	
13. A compound selected from the group consisting of:  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-cyclohexyl-4thiazoly)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S, 5S)-5-(N-(N-Methyl-N-((2-(1,1-dimethyl)ethyl-4-thiazoly)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazoly)methoxycarbonyl)amino)-1 ,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-ethenyl-4-thiazoly)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazoly)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-propenyl)-4thiazoly)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazoly)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-cyclopentenyl)-4-thiazoly)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl-3hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-cyclohexenyl)4-thiazoly)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((4-	The '056 patent claims compounds and pharmaceutically acceptable salts of compounds having the same central substituent as the compound of claim 13, save one additional hydroxyl group. The equivalence of the central substituent having an additional hydroxyl group was known in the art.

'206 patent	'056 patent
<p>(cyclopentenyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((4-cyclohexenyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-propenyl)-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valmyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(cyclohexyl)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-phenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-benzyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-</p>	

'206 patent	'056 patent
<p>phenyl)ethyl4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-(4-fluoro)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-chloro)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-methoxy)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropoxy-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; 20</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(N,N-dimethylamino)methyl-4-</p>	

'206 patent	'056 patent
<p>(thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)-arnino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-propyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-ethyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)analinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p>	

'206 patent	'056 patent
<p>(2S,3S,5S)-2-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiaz- 60 oyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazo]yl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-thiaz- 65 oyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Cyclopropyl-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)alaninyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(1-(2-Isopropyl-4-thiazolyl)ethoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(N-Cyclopropyl-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino-2-(N((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N((5-thiazolyl)methoxycarbonyl)amino)-</p>	

'206 patent	'056 patent
<p>1,6-diphenyl3-hydroxyhexane;</p> <p>(2S, 3S, 5S) -5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)arnin o)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((4-Isopropyl-2-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Diethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-dipheny 1-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-(((N,N-dimethylamino)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)aniino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methoxymethyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((2methyl-5-</p>	

'206 patent	'056 patent
<p>thiazolyl)methoxycarbonyl)amino)-1,6diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((2-Isopropyl-4-thiazolyl)thiomethoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(3-(2-Isopropyl-4-thiazolyl)propanoyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-(l(5-thiazolyl)ethoxycarbonyl)amino)-1,6-diphenyl-3hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-5-(N-((2methyl-5-thiazolyl)methoxycarbonyl)amino)-1,6diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-cyclopentyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclohexyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1,1-dimethyl- 5 )ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-</p>	

'206 patent	'056 patent
<p>cyclobutyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)ainino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-ethyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hy- 20 droxyhexane:</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-ethenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-propenyl)-4thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-cyclopentenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-cyclohexenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((4-cyclopentenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2- 40 (N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-</p>	

'206 patent	'056 patent
<p>diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((4-cyclohexenyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(3-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-methyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1,2-dimethyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(cyclopentyl)methyl)-4-</p>	

'206 patent	'056 patent
<p>thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(cyclohexyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-phenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-benzyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-phenyl)ethyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-phenyl-1-ethenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(4-fluoro)phenyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-cWoro)phenyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-</p>	

'206 patent	'056 patent
<p>1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(3-methoxy)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-thiazolyl)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-methoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-ethoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropoxy-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(N,N-dimethylamino)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)-</p>	

'206 patent	'056 patent
<p>amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-propyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-ethyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)alaninyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Ethyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-</p>	

'206 patent	'056 patent
(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-2(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-2-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(3-pentyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-	

'206 patent	'056 patent
<p>hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((2isopropyl)-5-thiazolyl)methoxycarbonyl)amino)-1,6diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(2-Isopropyl-4-thiazolyl)ethoxy)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxy- carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(2-Isopropyl-4-thiazolyl)ethoxy)carbonyl)valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)acetyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p style="padding-left: 40px;">(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-cyclobutyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-</p>	

'206 patent	'056 patent
<p>diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-(1-Propyl)-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-(Isobutyl)-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)carbonyl)-L-alaninyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-cyclopentyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isobutyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Ethyl-N-((2-cyclopentyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-(2-(2-</p>	

'206 patent	'056 patent
<p>isopropyl-4-(thiazolyl)ethyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-(tert-Butyloxycarbonylamino)N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; and</p> <p>(2S,3S,5S)-5-(N-(N-((N-(Amino)-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane Hydrochloride; or a pharmaceutically acceptable salt thereof.</p>	
14. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 1.	The '056 patent discloses compositions for inhibiting HIV comprising the compounds discussed above with a pharmaceutical carrier. (col. 218-219)
15. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 2.	The '056 patent discloses compositions for inhibiting HIV comprising the compounds discussed above with a pharmaceutical carrier. (col. 218-219)
16. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 10.	The '056 patent discloses compositions for inhibiting HIV comprising the compound discussed above with a pharmaceutical carrier. (col. 218-219)
17. A pharmaceutical composition for inhibiting an HIV infection comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 10.	The '056 patent discloses compositions for inhibiting HIV comprising the compound discussed above with a pharmaceutical carrier. (col. 218-219)
18. A method for inhibiting HIV protease comprising administering to a human in need thereof a therapeutically effective amount of a	The '056 patent discloses a method for inhibiting HIV comprising administering the compounds discussed above to a human. (col.

'206 patent	'056 patent
compound of claim 10.	220)
19. A method for inhibiting an HIV infection comprising administering to a human in need thereof a therapeutically effective amount of a compound of claim 10.	The '056 patent discloses a method for inhibiting HIV comprising administering the compounds discussed above to a human. (col. 220)

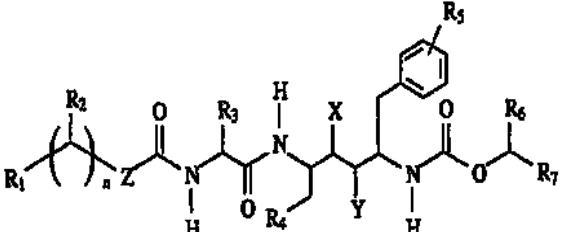
### **SIGAL ANTICIPATED OR RENDERED OBVIOUS THE '206 PATENT**

In addition to being anticipated or rendered obvious by the '056 patent, the '206 patent was also anticipated or rendered obvious by Sigal. The Sigal application was published October 18, 1989. Accordingly, it is 102(b) prior art to the '206 patent which has an effective filing date of April 25, 1995 as explained above. Pfizer v. Apotex is again instructive as to why the '206 patent is invalid over Sigal.

The chart below sets forth an element-by-element comparison of all nineteen claims of the '206 patent to the teaching of Sigal. In essence, the compounds claimed in the '206 patent represent a genus of or are rendered obvious by the class of compounds disclosed in Sigal. Sigal discloses compounds having the identical central substituent as that of the compound named in the claims of the '206 patent and pharmaceutically acceptable salts thereof. Sigal at 42. It also discloses a method of treating and a pharmaceutical composition for treating HIV infection and AIDS. “The treatment involves administering to a patient in need of such treatment a pharmaceutical composition comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of [Sigal] or a pharmaceutically-acceptable salt therof.” Id. Although Sigal may not have explicitly disclosed the exact compounds recited in the '206 patent, each element of the '206 patent's claims is either inherent in or rendered obvious by Sigal's teachings. Therefore each claim of the '206 patent is invalid and should be canceled.

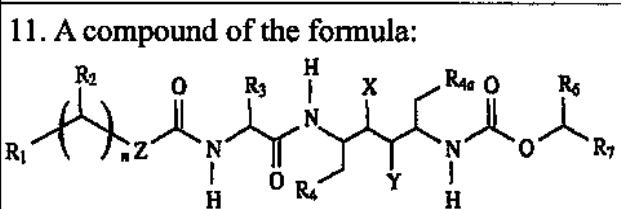
'206 patent	Sigal
<p>1. A compound of the formula:</p> <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1, 2, or 3;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> and R<sub>4a</sub> are independently selected from phenyl and substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted or</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 1.</p>

'206 patent	Sigal
substituted with C <sub>1</sub> -C <sub>6</sub> --loweralkyl; X is hydrogen and Y is —OH ; and	
Z is absent, —O—, —S—, —CH <sub>2</sub> — or —N(R <sub>8</sub> )— wherein R <sub>8</sub> is C <sub>1</sub> -C <sub>6</sub> -loweralkyl, C <sub>3</sub> -C <sub>7</sub> -cycloalkyl, —OH or —NHR <sub>8a</sub> wherein R <sub>8a</sub> is hydrogen, C <sub>1</sub> -C <sub>6</sub> - loweralkyl or an N-protecting group selected from the group consisting of fibrmyl, acetyl, propionyl, pivaloyl, t-butylacetyl, 2-chloroacetyl, 2-bromoacetyl, trifluoroacetyl, trichloroacetyl, phthalyl, o-nitrophenoxyacetyl, α-chlorobutryyl, benzoyl, 4-chlorobenzoyl, 4-bromobenzoyl, 4-nitrobenzoyl, benzenesulfonyl, p-toluenesulfonyl, benzyloxycarbonyl, p-chlorobenzyloxycarbonyl, p-methoxybenzyloxycarbonyl, p-nitrobenzyloxycarbonyl, 2-nitrobenzyloxycarbonyl, p-dimethoxybenzyloxycarbonyl, 3,5-dimethoxybenzyloxycarbonyl, 2,4dimethoxybenzyloxycarbonyl, 4-methoxybenzyloxycarbonyl, 2-nitro-4,5-dimethoxybenzyloxycarbonyl, 3,4,5-trimethoxybenzyloxycarbonyl, 1 -(p-biphenylyl)1-methylethoxycarbonyl, αα-dimethyl-3,5-dimethoxybenzyloxycarbonyl, benzhydryloxycarbonyl, t-butyloxycarbonyl, diisopropylmethoxycarbonyl, isopropylloxycarbonyl, ethoxycarbonyl, methoxycarbonyl, allyloxycarbonyl, 2,2,2-trichloroethoxycarbonyl, phenoxy carbonyl, 4-nitrophenoxy carbonyl, fluorenyl9-methoxycarbonyl, cyclopentyloxycarbonyl, adamantlyloxycarbonyl, cyclohexyloxycarbonyl, phenylthiocarbonyl, benzyl, triphenylmethyl, benzyloxymethyl and trimethylsilyl; or a pharmaceutically acceptable salt thereof.	
2. A compound of the formula:	Sigal discloses compounds and pharmaceutically acceptable salts of

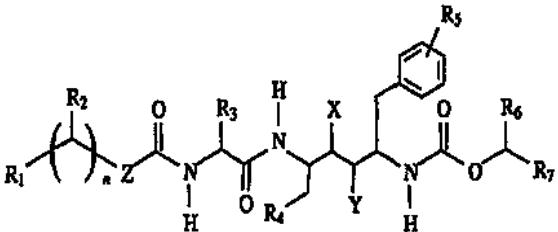
'206 patent	Sigal
 <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> is phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>5</sub> is hydrogen, halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p>	compounds having the identical central substituent as the compound of claim 2.

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<p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted or substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>X is hydrogen and Y is —OH ; and</p> <p>Z is absent, —O—, —S—, —CH<sub>2</sub>— or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl; or a pharmaceutically acceptable salt thereof.</p>	
<p>3. The compound of claim 2 wherein R<sub>2</sub> is hydrogen, R<sub>4</sub> is phenyl; R<sub>5</sub> is hydrogen; R<sub>6</sub> is hydrogen and R<sub>7</sub> is thiazolyl or oxazolyl.</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 3.</p>
<p>4. The compound of claim 3, wherein R<sub>7</sub> is 5-thiazolyl or 5-oxazolyl.</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 4.</p>
<p>5. The compound of claim 2 wherein R<sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is C<sub>1</sub>-C<sub>6</sub>-loweralkyl; ; R<sub>2</sub> is hydrogen; R<sub>4</sub> is phenyl; R<sub>5</sub> is hydrogen; R<sub>6</sub> is hydrogen; R<sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —O— or —N-(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl.</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 5.</p>
<p>6. The compound of claim 2 wherein R<sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is ethyl or isopropyl; R<sub>2</sub> is hydrogen; R<sub>3</sub> is methyl or isopropyl; R<sub>4</sub> is phenyl; R<sub>5</sub> is hydrogen; R<sub>6</sub> is hydrogen; R<sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —O— .</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 6.</p>
<p>7. The compound of claim 2 wherein R<sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is ethyl or isopropyl; R<sub>2</sub> is hydrogen; R<sub>3</sub> is isopropyl; R<sub>4</sub> is phenyl; R<sub>5</sub> is</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 7.</p>

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hydrogen; R <sub>6</sub> is hydrogen; R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —N(R <sub>8</sub> )— wherein R <sub>8</sub> is methyl .	
8. (2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)-amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; or a pharmaceutically acceptable salt thereof.	Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 8.
9. A compound selected from the group consisting of: (2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)-amino)carbonyl)alaninyl)amino)-2-(N((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl 3-hydroxyhexane; (2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; (2S,3S,5S)-2-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-methoxycarbonyl)arnino)-1,6-diphenyl-3-hydroxyhexane; (2S,3S,5S)-5-(N-(N-((2-Isopropyl)-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; (2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)-valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; (2S,3S,5S)-2-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)-valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 9.

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<p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; and</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	
<p>10. (2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 10.
<p>11. A compound of the formula:</p>  <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined</p>	Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 11.

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<p>above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl,  (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1, 2, or 3;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> and R<sub>4a</sub> are independently selected from phenyl and substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted and R<sub>3</sub> is C<sub>2</sub>-C<sub>6</sub>-loweralkyl and Z is absent, --O--, --S--, or --CH<sub>2</sub>--; or</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl and R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl and Z is absent, —O—, —S—, —CH<sub>2</sub>—; or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>-loweralkyl or an N-protecting group selected from the group consisting of formyl, acetyl, propionyl, pivaloyl, t-butylacetyl, 2-chloroacetyl, 2-bromoacetyl, trifluoroacetyl, trichloroacetyl, phthalyl, o-nitrophenoxyacetyl, α-chlorobutyryl, benzoyl, 4-chlorobenzoyl, 4-bromobenzoyl, 4-nitrobenzoyl, benzenesulfonyl, p-toluenesulfonyl, benzyloxycarbonyl, p-chlorobenzyloxycarbonyl, p-methoxybenzyloxycarbonyl, p-nitrobenzyloxycarbonyl, 2-nitrobenzyloxycarbonyl, p-bromobenzyloxy carbonyl, 3,4-dimethoxybenzyloxycarbonyl, 3,5-dimethoxybenzyloxycarbonyl, 2,4-dimethoxybenzyloxycarbonyl, 4-methoxybenzyloxycarbonyl, 2-nitro-4,5-</p>	

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<p>dimethoxy benzylloxycarbonyl, 3,4,5-trimethoxybenzylloxycarbonyl, 1-(p-biphenylyl)-1-methylethoxycarbonyl, <math>\alpha,\alpha</math>-dimethyl-3,5-dimethoxybenzylloxy carbonyl, benzhydryloxycarbonyl, t-butyloxycarbonyl, diisopropylmethoxycarbonyl, isopropylloxycarbonyl, ethoxycarbonyl, methoxycarbonyl, allyloxycarbonyl, 2,2,2-trichloroethoxycarbonyl, phenoxy carbonyl, 4-nitrophenoxycarbonyl, fluorenyl-9-methoxycarbonyl, cyclopentyloxycarbonyl, adamantlyloxycarbonyl, cyclohexyloxycarbonyl, phenylthiocarbonyl, benzyl, triphenylmethyl, benzyloxymethyl and trimethylsilyl; and</p> <p>X is -OH and Y is hydrogen;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	
<p>12. A compound of the formula:</p>  <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S-C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S-,</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 12.</p>

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<p>(xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> is phenyl or substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted and R<sub>3</sub> is C<sub>2</sub>-C<sub>6</sub>-loweralkyl and Z is absent, --O--, --S--, or --CH<sub>2</sub>--; or</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl and R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl and Z is absent, —O—, —S—, —CH<sub>2</sub>—; or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl; and</p> <p>X is —OH and Y is hydrogen;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	
<p>13. A compound selected from the group consisting of:</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-cyclohexyl-4-thiazolyl)methyl)amino)-carbonyl)valmyl)amino)-2(N-((5-thiazolylmethoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S, 5S)-5-(N-(N-Methyl-N-((2-(1,1-dimethyl)ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-</p>	<p>Sigal discloses compounds and pharmaceutically acceptable salts of compounds having the identical central substituent as the compound of claim 13.</p>

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<p>thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-ethenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-propenyl)-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-cyclopentenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-cyclohexenyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((4-cyclopentenyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((4-cyclohexenyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-propenyl)-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy</p>	

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<p>carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valmyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(cyclohexyl)methyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-phenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-benzyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-phenyl)ethyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-(4-fluoro)phenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-chloro)phenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-</p>	

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<p>hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-methoxy)phenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)arnino)-2-(N-((5tMazolyl)methoxycarbonyl)amino)-1 ,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isoproploxy-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; 20</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(N,N-dimethylamino)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)-arnino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-propyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S,)-5-(N-(N-Methyl-N-((2-(methyl)propyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2- 30 (N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p>	

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<p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1ethyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphe- 4Q nyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)analinyl)amino)-2-(N((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-Isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiaz- 60 olyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazo]yl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(N,N-</p>	

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<p>Dimethylamino)-4-thiazoly(methoxycarbonyl)valinyl)amino)-5-(N-((5-thiaz- 65 olyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(N-Cyclopropyl-N-((2-isopropyl-4thiazoly)methyl)amino)carbonyl)alaninyl)amino)-2(N-((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(l-(2-Isopropyl-4-thiazoly)ethoxycarbonyl)valinyl)amino)-2-(N-((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(N-Cyclopropyl-N-((2-isopropyl-4thiazoly)methyl)amino)carbonyl)valinyl)amino-2-(N((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazoly)methyl)amino)carbonyl)valinyl)amino)-2-(N((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S, 3S, 5S) -5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazoly)methyl)amino)carbonyl)valinyl)amino)-2-(N((5-oxazoly)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazoly)methyl)amino)carbonyl)valinyl)arnin o)-2-(N-((5oxazoly)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((4-Isopropyl-2-thiazoly)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazoly)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p>	

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<p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Diethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-(((N,N-dimethylamino)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methoxymethyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((2methyl-5-thiazolyl)methoxycarbonyl)amino)-1,6diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((2-Isopropyl-4-thiazolyl)thiomethoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(3-(2-Isopropyl-4-thiazolyl)propanoyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-(1(5-thiazolyl)ethoxycarbonyl)amino)-</p>	

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<p>1,6-diphenyl-3hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amin o)-5-(N-((2methyl-5-thiazolyl)methoxycarbonyl)amino)-1,6diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-cyclopentyl-4thiazolyl)methyl)amino)- carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclohexyl-4-thiazolyl)methyl)amino)- carbonyl)valinyl)amino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1,l-dimethyl- 5 )ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amin o)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclobutyl-4-thiazolyl)methyl)amino)- carbonyl)valinyl)ainino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclopropyl-4-thiazolyl)methyl)amino)- carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-ethyl-4-thiazolyl)methyl)amino)- carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hy- 20 droxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-ethenyl-</p>	

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<p>4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-propenyl)-4thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-cyclopentenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-cyclohexenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((4-cyclopentenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((4-cyclohexenyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(3-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-propenyl)-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)</p>	

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<p>no)-2-(N-((5-oxazoly l)methoxycarbonyl)amino)-1,6-diphenyl-3- hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1- methyl-l-propenyl)-4- thiazolyl)methyl)amino)carbonyl)valinyl)amin o)-2-(N-((5- oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2- methyl-1 -propenyl)-4- thiazolyl)methyl)amino)carbonyl)valinyl)amin o)-2-(N-((5-oxazolyl)- methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1,2- dimethyl-l-propenyl)-4- thiazolyl)methyl)amino)carbonyl)valinyl)amin o)-2-(N-((5-oxazolyl)- methoxycarbonyl)amino)-1,6-diphenyl-3- hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2- (cyclopentyl)methyl-4- thiazolyl)methyl)amino)carbonyl)valinyl)amin o)-2-(N-((5- oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2- (cyclohexyl)methyl-4- thiazolyl)methyl)amino)carbonyl)valinyl)amin o)-2-(N-((5- oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-phenyl- 4-thiazolyl)methyl)amino)- carbonyl)valinyl)amino)-2-(N- ((5oxazolyl)methoxycarbonyl)amino)-1,6- diphenyl-3-hydroxyhexane;</p>	

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<p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-benzyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-phenyl)ethyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-phenyl)-1-ethenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(4-fluoro)phenyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-cWoro)phenyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(3-methoxy)phenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-</p>	

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<p>thiazolyl)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropoxy-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(N,N-dimethylamino)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)-amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-propyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-methyl)propyl-4-</p>	

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(thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-ethyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)alaninyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Ethyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-2(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-	

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<p>thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(N,N-Dimetfaylanrino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(3-pentyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((2-isopropyl)-5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(2-isopropyl-4-thiazolyl)ethoxy)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxy-5-carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p>	

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(2S,3S,5S)-2-(N-(N-((2-(2-Isopropyl-4-thiazolyl)ethoxy)carbonyl)valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)acetyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-cyclobutyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-(1-Propyl)-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N,N-((N-(Isobutyl)-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N -((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;	

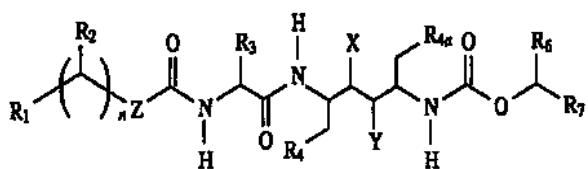
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<p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)carbonyl)-L-alaninyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-cyclopentyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isobutyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Ethyl-N-((2-cyclopentyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-(2-(2-isopropyl-4-thiazolyl)ethyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(tert-Butyloxycarbonylamino)N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; and</p> <p>(2S,3S,5S)-5-(N-(N-((N-(Amino)-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy</p>	

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carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane Hydrochloride; or a pharmaceutically acceptable salt thereof.	
14. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 1.	Sigal discloses compositions for inhibiting HIV comprising the compounds discussed above with a pharmaceutical carrier.
15. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 2.	Sigal discloses compositions for inhibiting HIV comprising the compounds discussed above with a pharmaceutical carrier.
16. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 10.	Sigal discloses compositions for inhibiting HIV comprising the compound discussed above with a pharmaceutical carrier.
17. A pharmaceutical composition for inhibiting an HIV infection comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 10.	Sigal discloses compositions for inhibiting HIV comprising the compound discussed above with a pharmaceutical carrier.
18. A method for inhibiting HIV protease comprising administering to a human in need thereof a therapeutically effective amount of a compound of claim 10.	Sigal discloses a method for inhibiting HIV comprising administering the compounds discussed above to a human.
19. A method for inhibiting an HIV infection comprising administering to a human in need thereof a therapeutically effective amount of a compound of claim 10.	Sigal discloses a method for inhibiting HIV comprising administering the compounds discussed above to a human.

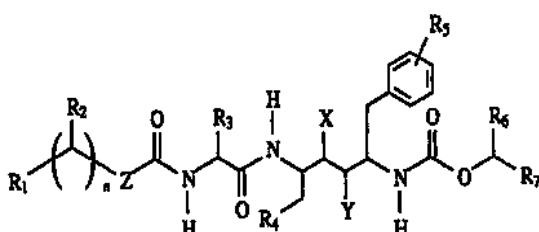
**THE '206 PATENT WAS ANTICIPATED OR RENDERED OBVIOUS BY HO**

Ho, published in January of 1995, predates the April 1995 filing of the '206 application and is thus prior art to the '206 patent under 102(a). Ho provides *in vivo* evidence that the compound recited in claim 10 of the '206 patent, referred to as ABT-538 in the article, which is

only slightly different from the other compounds claimed in the '206 patent, was effective in treating HIV when administered to humans. Ho at 123. Ho thus anticipated the invention claimed in the '206 patent. The chart below sets forth an element-by-element comparison of all nineteen claims of the '206 patent to the teaching of Ho. Because Ho disclosed a method of treatment using the exact compound recited in claim 10 of the '206 patent, and nearly identical to the other compounds claimed in the '206 patent, each element of the '206 patent's claims is either inherent in or rendered obvious by Ho's teachings. Therefore each claim of the '206 patent is invalid and should be canceled.

'206 patent	Ho
<p>1. A compound of the formula:</p>  <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-</p>	<p>Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 1.</p>

'206 patent	Ho
<p>C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1, 2, or 3;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> and R<sub>4a</sub> are independently selected from phenyl and substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted or substituted with C<sub>1</sub>-C<sub>6</sub>--loweralkyl;</p> <p>X is hydrogen and Y is —OH ; and</p> <p>Z is absent, —O—, —S—, —CH<sub>2</sub>— or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>- loweralkyl or an N-protecting group selected from the group consisting of formyl, acetyl, propionyl, pivaloyl, t-butylacetyl, 2-chloroacetyl, 2-bromoacetyl, trifluoroacetyl, trichloroacetyl, phthalyl, o-nitrophenoxyacetyl, α-chlorobutyryl, benzoyl, 4-chlorobenzoyl, 4-bromobenzoyl, 4-nitrobenzoyl, benzenesulfonyl, p-toluenesulfonyl, benzyloxycarbonyl, p-chlorobenzyloxycarbonyl, p-methoxybenzyloxycarbonyl, p-nitrobenzyloxycarbonyl, 2-nitrobenzyloxycarbonyl, p-dimethoxybenzyloxycarbonyl, 3,5-dimethoxybenzyloxycarbonyl, 4-(2,4-dimethoxybenzyloxycarbonyl), 4-methoxybenzyloxycarbonyl, 2-nitro-4,5-dimethoxybenzyloxycarbonyl, 3,4,5-trimethoxybenzyloxycarbonyl, 1-(p-biphenylyl)-1-methylethoxycarbonyl, αα-</p>	

'206 patent	Ho
<p>dimethyl-3,5-dimethoxybenzylloxycarbonyl,  benzhydryloxycarbonyl, t-butyloxycarbonyl,  diisopropylmethoxycarbonyl,  isopropylloxycarbonyl, ethoxycarbonyl,  methoxycarbonyl, allyloxycarbonyl, 2,2,2,-  trichloroethoxycarbonyl, phenoxy carbonyl, 4-  nitrophenoxy carbonyl, fluorenyl 9-  methoxycarbonyl, cyclopentyloxycarbonyl,  adamantyloxycarbonyl,  cyclohexyloxycarbonyl, phenylthiocarbonyl,  benzyl, triphenylmethyl, benzyloxymethyl and  trimethylsilyl; or a pharmaceutically  acceptable salt thereof.</p>	
<p>2. A compound of the formula:</p>  <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-</p>	<p>Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 2.</p>

'206 patent	Ho
<p>C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> is phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>5</sub> is hydrogen, halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted or substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>X is hydrogen and Y is —OH ; and</p> <p>Z is absent, —O—, —S—, —CH<sub>2</sub>— or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl; or a pharmaceutically acceptable salt thereof.</p>	
3. The compound of claim 2 wherein R <sub>2</sub> is hydrogen, R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen and R <sub>7</sub> is thiazolyl or oxazolyl.	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 3.
4. The compound of claim 3, wherein R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl.	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 4.
5. The compound of claim 2 wherein R <sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is C <sub>1</sub> -C <sub>6</sub> -loweralkyl; ; R <sub>2</sub> is hydrogen; R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen; R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —O— or —N-(R <sub>8</sub> )— wherein R <sub>8</sub> is C <sub>1</sub> -C <sub>6</sub> -	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 5.

'206 patent	Ho
loweralkyl.	
6. The compound of claim 2 wherein R <sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is ethyl or isopropyl; R <sub>2</sub> is hydrogen; R <sub>3</sub> is methyl or isopropyl; R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen; R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —O—.	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 6.
7. The compound of claim 2 wherein R <sub>1</sub> is 2-monosubstituted-4-thiazolyl or 2-monosubstituted-4-oxazolyl wherein the substituent is ethyl or isopropyl; R <sub>2</sub> is hydrogen; R <sub>3</sub> is isopropyl; R <sub>4</sub> is phenyl; R <sub>5</sub> is hydrogen; R <sub>6</sub> is hydrogen; R <sub>7</sub> is 5-thiazolyl or 5-oxazolyl; and Z is —N(R <sub>8</sub> )— wherein R <sub>8</sub> is methyl .	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 7.
8. (2S,3S,5S)-5-(N-(N-(N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)-amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; or a pharmaceutically acceptable salt thereof.	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 8.
9. A compound selected from the group consisting of: (2S,3S,5S)-5-(N-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)-amino)carbonyl)alaninyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl 3-hydroxyhexane; (2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; (2S,3S,5S)-2-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-methoxycarbonyl)arnino)-1,6-diphenyl-3-hydroxyhexane;	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 9.

'206 patent	Ho
<p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl)-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)-valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)-valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; and</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	
<p>10. (2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>or a pharmaceutically acceptable salt thereof.</p>	Ho taught the efficacy in AIDS/HIV treatment of the exact compound recited in claim 10.
<p>11. A compound of the formula:</p> <p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or</p>	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 11.

'206 patent	Ho
<p>monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub>-cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub>-cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsibstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substttued as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1, 2, or 3;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> and R<sub>4a</sub> are independently selected from phenyl and substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted and R<sub>3</sub> is C<sub>2</sub>-C<sub>6</sub>-loweralkyl and Z is absent, --O--, --S--, or --CH<sub>2</sub>--; or</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl and R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl and Z is absent, —O—, —S—, —CH<sub>2</sub>—; or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein</p> <p>R<sub>8a</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>-loweralkyl or an N-protecting group selected from the group consisting of formyl, acetyl, propionyl,</p>	

'206 patent	Ho
<p>pivaloyl, t-butylacetyl, 2-chloroacetyl, 2-bromoacetyl, trifluoroacetyl, trichloroacetyl, phthalyl, o-nitrophenoxyacetyl, <math>\alpha</math>-chlorobutyryl, benzoyl, 4-chlorobenzoyl, 4-bromobenzoyl, 4-nitrobenzoyl, benzenesulfonyl, p-toluenesulfonyl, benzyloxycarbonyl, p-chlorobenzyloxycarbonyl, p-methoxybenzyloxycarbonyl, p-nitrobenzyloxycarbonyl, 2-nitrobenzyloxycarbonyl, p-bromobenzyloxy carbonyl, 3,4-dimethoxybenzyloxycarbonyl, 3,5-dimethoxybenzyloxycarbonyl, 2,4-dimethoxybenzyloxycarbonyl, 4-methoxybenzyloxycarbonyl, 2-nitro-4,5-dimethoxy benzyloxycarbonyl, 3,4,5-trimethoxybenzyloxycarbonyl, 1-(p-biphenylyl)-1-methylethoxycarbonyl, <math>\alpha,\alpha</math>-dimethyl-3,5-dimethoxybenzyloxy carbonyl, benzhydryloxycarbonyl, t-butyloxycarbonyl, diisopropylmethoxycarbonyl, isopropylloxycarbonyl, ethoxycarbonyl, methoxycarbonyl, allyloxycarbonyl, 2,2,2-trichloroethoxycarbonyl, phenoxy carbonyl, 4-nitrophenoxy carbonyl, fluorenyl-9-methoxycarbonyl, cyclopentyloxycarbonyl, adamantyloxycarbonyl, cyclohexyloxycarbonyl, phenylthiocarbonyl, benzyl, triphenylmethyl, benzyloxymethyl and trimethylsilyl; and</p> <p>X is <math>-\text{OH}</math> and Y is hydrogen; or a pharmaceutically acceptable salt thereof.</p>	
<p>12. A compound of the formula:</p>	<p>Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 12.</p>

'206 patent	Ho
<p>wherein</p> <p>R<sub>1</sub> is monosubstituted thiazolyl or monosubstituted oxazolyl wherein the substituent is selected from (i) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (ii) C<sub>2</sub>-C<sub>6</sub> loweralkenyl, (iii) C<sub>3</sub>-C<sub>7</sub> cycloalkyl, (iv) C<sub>3</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (v) C<sub>3</sub>-C<sub>5</sub>-cycloalkenyl, (vi) C<sub>5</sub>-C<sub>7</sub> -cycloalkyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, (vii) C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl, (viii) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or benzyl-S—C<sub>1</sub>-C<sub>6</sub>-alkyl, (ix) C<sub>1</sub>-C<sub>6</sub>-alkylamino, (x) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino, (xi) phenyl wherein the phenyl ring is unsubstituted or substituted with a substituent selected from halo, C<sub>1</sub>-C<sub>6</sub>-loweralkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>-alkoxy, benzyloxy, C<sub>1</sub>-C<sub>6</sub>-thioalkoxy and benzyl-S--, (xii) phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl wherein the phenyl ring is unsubstituted or substituted as defined above, (xiii) di-C<sub>1</sub>-C<sub>6</sub>-alkylamino-C<sub>1</sub>-C<sub>6</sub>-alkyl, (xiv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (xv) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>n is 1;</p> <p>R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>4</sub> is phenyl or substituted phenyl wherein the phenyl ring is substituted with a substituent selected from (i) halo, (ii) C<sub>1</sub>-C<sub>6</sub>-loweralkyl, (iii) hydroxy, (iv) C<sub>1</sub>-C<sub>6</sub>-alkoxy or benzyloxy and (v) C<sub>1</sub>-C<sub>6</sub>-thioalkoxy or benzyl-S--;</p> <p>R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl;</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is unsubstituted and R<sub>3</sub> is C<sub>2</sub>-C<sub>6</sub>-loweralkyl and Z is absent, --O--, --S--, or --CH<sub>2</sub>--; or</p> <p>R<sub>7</sub> is thiazolyl or oxazolyl wherein the thiazolyl or oxazolyl ring is substituted with C<sub>1</sub>-C<sub>6</sub>-loweralkyl and R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl and Z is absent, —O—, —S—, —CH<sub>2</sub>—; or —N(R<sub>8</sub>)— wherein R<sub>8</sub> is C<sub>1</sub>-C<sub>6</sub>-loweralkyl, C<sub>3</sub>-C<sub>7</sub>-cycloalkyl, —OH or —NHR<sub>8a</sub> wherein R<sub>8a</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-loweralkyl; and</p>	

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X is -OH and Y is hydrogen; or a pharmaceutically acceptable salt thereof.	
13. A compound selected from the group consisting of:  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-cyclohexyl-4thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S, 5S)-5-(N-(N-Methyl-N-((2-(1,1-dimethyl)ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1 ,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-ethenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-propenyl)-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-cyclopentenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-cyclohexenyl)4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;  (2S,3S,5S)-5-(N-(N-Methyl-N-((4-cyclopentenyl-	Ho taught the efficacy in AIDS/HIV treatment of a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 13.

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<p>4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((4-cyclohexenyl)-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-propenyl)-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(cyclohexyl)methyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-benzyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-phenyl)ethyl)-4-</p>	

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<p>thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-(4-fluoro)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-chloro)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-methoxy)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropoxy-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; 20</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(N,N-dimethylamino)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)</p>	

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<p>o)-2-(N-((5-thiazolyl)methoxycarbonyl)-arnino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-propyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-methyl)propyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl)propyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-ethyl)propyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl)-4-thiazolyl)methyl)amino)carbonyl)analinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-Isopropyl-4-</p>	

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<p>thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiaz- 60 olyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazo]yl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-thiaz- 65 olyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Cyclopropyl-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)alaninyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(1-(2-Isopropyl-4-thiazolyl)ethoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Cyclopropyl-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino-2-(N((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p>	

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<p>(2S, 3S, 5S) -5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)arnin o)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((4-Isopropyl-2-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(N,N-Diethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-dipheny 1-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((N,N-dimethylamino)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)aniino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(methoxymethyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((2methyl-5-thiazolyl)methoxycarbonyl)amino)-1,6-</p>	

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<p>diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((2-Isopropyl-4-thiazolyl)thiomethoxycarbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(3-(2-Isopropyl-4-thiazolyl)propanoyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-(1(5-thiazolyl)ethoxycarbonyl)amino)-1,6-diphenyl-3hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-5-(N-(2methyl-5-thiazolyl)methoxycarbonyl)amino)-1,6diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-cyclopentyl-4thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclohexyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1,1-dimethyl- 5 )ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclobutyl-4-thiazolyl)methyl)amino)-</p>	

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<p>carbonyl)valinyl)ainino)-2-(N((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclopropyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-ethyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-ethenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-propenyl)-4thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-cyclopentenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-cyclohexenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((4-cyclopentenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-</p>	

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<p>diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((4-cyclohexenyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(3-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1-methyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-methyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(1,2-dimethyl-1-propenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(cyclopentyl)methyl)-4-</p>	

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<p>thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(cyclohexyl)methyl)thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-phenyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-benzyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-phenyl)ethyl)thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-phenyl)-1-ethenyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(4-fluoro)phenyl)thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(2-cWoro)phenyl)thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-</p>	

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<p>1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(3-methoxy)phenyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-thiazolyl)methyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-methoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-ethoxy-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropoxy-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(N,N-dimethylamino)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)-</p>	

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(2S,3S,5S)-5-(N-(N-Methyl-N-((2-propyl-4-thiazolyl)methyl)amino)-carbonyl)valinyl)amino)-2-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(2-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-methyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-oxazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Methyl-N-((2-(1-ethyl)propyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)alaninyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Ethyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-	

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(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-2(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)methoxycarbonyl)alaninyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-2-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-2-(N-(N-((2-(N,N-Dimethylamino)-4-thiazolyl)methoxycarbonyl)valinyl)amino)-5-(N-((5-oxazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-methyl-4-oxazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-(3-pentyl)-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-	

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<p>hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-Methyl-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((2isopropyl)-5-thiazolyl)methoxycarbonyl)amino)-1,6diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-(2-Isopropyl-4-thiazolyl)ethoxy)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxy- carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-2-(N-(N-((2-(2-Isopropyl-4-thiazolyl)ethoxy)carbonyl)valinyl)amino)-5-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((2-Isopropyl-4-thiazolyl)acetyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N,N-((N-Methyl-N-((2-cyclopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-cyclobutyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-ethyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-</p>	

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diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-(1-Propyl)-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N,N-((N-(Isobutyl)-N-((2-isopropyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isopropyl-4-oxazolyl)methyl)amino)carbonyl)-L-alaninyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-cyclopentyl-4thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-((N-Methyl-N-((2-isobutyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N,N-((N-Ethyl-N-((2-cyclopentyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;	
(2S,3S,5S)-5-(N-(N-Methyl-N-(2-(2-	

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<p>isopropyl-4-(thiazolyl)ethyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane;</p> <p>(2S,3S,5S)-5-(N-(N-(tert-Butyloxycarbonylamino)N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2-(N-((5-thiazolyl)methoxycarbonyl)amino)-1,6-diphenyl-3-hydroxyhexane; and</p> <p>(2S,3S,5S)-5-(N-(N-(Amino)-N-((2-isopropyl-4-thiazolyl)methyl)amino)carbonyl)valinyl)amino)-2(N-((5-thiazolyl)methoxy carbonyl)amino)-1,6-diphenyl-3-hydroxyhexane Hydrochloride; or a pharmaceutically acceptable salt thereof.</p>	
14. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 1.	Ho discloses use in HIV treatment of a pharmaceutical composition using a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 1.
15. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 2.	Ho discloses use in HIV treatment of a pharmaceutical composition using a compound having the identical central substituent and nearly identical side groups as a compound claimed in claim 2.
16. A pharmaceutical composition for inhibiting HIV protease comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 10.	Ho discloses use in HIV treatment of a pharmaceutical composition using the compound of claim 10.
17. A pharmaceutical composition for inhibiting an HIV infection comprising a pharmaceutical carrier and a therapeutically effective amount of a compound of claim 10.	Ho discloses use in HIV treatment of a pharmaceutical composition using the compound of claim 10.
18. A method for inhibiting HIV protease comprising administering to a human in need	Ho discloses a method for inhibiting HIV using the compound of claim 10.

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thereof a therapeutically effective amount of a compound of claim 10.	
19. A method for inhibiting an HIV infection comprising administering to a human in need thereof a therapeutically effective amount of a compound of claim 10.	Ho discloses a method for inhibiting HIV using the compound of claim 10.

## CONCLUSION

For the reasons set forth above, each of the claims of the '206 patent is invalid. Accordingly, PUBPAT respectfully requests that they be examined *ex parte* and subsequently canceled.

August 25, 2010

Date

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## **APPENDIX A**

## **APPENDIX B**

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Sheet 1

of 12

Application Number

90/ ,

Filing Date

First Named Inventor

Kempf, Dale J.

Art Unit

Examiner Name

Attorney Docket Number

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (# known)			
		US- 5,142,056	08-25-1992	Kempf, et al.	
		US-			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		EP 0 337 714 A2	10-18-1989	Merck & Co. Inc.		

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		HO et al., Rapid Turnover of Plasma Virions and CD4 Lymphocytes in HIV-1 Infection, Nature, 373: 123-126, January 1995.	

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