IPOS
9907091-9

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : C07D 403/06, A61K 31/55 — A1

(11) International Publication Number: WO 98/20009

(43) International Publication Date: 14 May 1998 (14.05.98)

(21) International Application Number: PCT/US97/20036

(22) International Filing Date: 4 November 1997 (04.11.97)

(30) Priority Data:
08/747,103 — 8 November 1996 (08.11.96) — US
60/029,746 — 8 November 1996 (08.11.96) — US

(71) Applicant: THE DU PONT MERCK PHARMACEUTICAL COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US).

(72) Inventors: RODGERS, James, David; 2 Hillside Lane, Landenberg, PA 19350 (US). LAM, Patrick, Yuk-Sun; 6 Ridgeway Drive, Chadds Ford, PA 19317 (US).

(74) Agent: VANCE, David, H.; The du Pont Merck Pharmaceutical Company, Legal/Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).

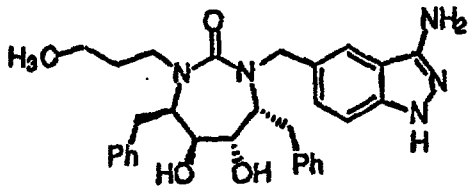
(81) Designated States: AM, AU, AZ, BA, BR, BY, CA, CN, CU, CZ, EE, HU, IL, JP, KG, KR, KZ, LC, LT, LV, MD, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, UA, VN, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: (4R,5S,6S,7R)-HEXAHYDRO-1-[5-(3-AMINOINAZOLE)METHYL] -3-BUTYL-5,6-DIHYDROXY-4,7-BIS [PHAENYLMETHYL] -2H-1,3-DIAZEPIN-2-ONE, ITS PREPARATION AND ITS USE AS HIV PROTEASE INHIBITOR



(I)

(57) Abstract

The present invention relates to compounds of formula (I) or pharmaceutically acceptable salt forms or prodrugs thereof, which are useful as inhibitors of HIV protease, and to pharmaceutical compositions and diagnostic kits comprising the same, and methods of using the same for treating viral infection or as an assay standard or reagent.