

Title (en)  
ALPHA-HYDROXY-GAMMA-[[[(CARBOCYCLIC-OR HETEROCYCLIC-SUBSTITUTED)AMINO]CARBONYL]ALKANAMIDE DERIVATIVES AND USES THEREOF

Title (de)  
ALPHA-HYDROXY-GAMMA-(CARBOZYKLISCH ODER HETEROZYKLISCH SUBSTITUIERTE)AMINOCARBONYLALKANAMID-DERIVATE UND IHRE VERWENDUNG

Title (fr)  
DERIVES ALPHA-HYDROXY-GAMMA-[[[(CARBOCYCLIQUES-OU HETEROCYCLIQUES-SUBSTITUES)AMINO]CARBONYLE]ALCANAMIDE ET UTILISATIONS DE CEUX-CI

Publication  
**EP 1202626 A4 20021030 (EN)**

Application  
**EP 00947506 A 20000719**

Priority  

- US 0019626 W 20000719
- US 14464499 P 19990720
- US 36503499 A 19990802
- US 14722699 P 19990804
- US 36689199 A 19990804
- US 0019573 W 20000718

Abstract (en)  
[origin: WO0105230A1] Certain alpha -hydroxy- gamma -[[[(carbocyclic- or heterocyclic-substituted)amino]carbonyl]alkanamide derivatives are described as inhibitors of HIV protease and inhibitors of HIV replication. These compounds are useful in the prevention or treatment of infection by HIV and the treatment of AIDS, either as compounds, pharmaceutically acceptable salts, pharmaceutical composition ingredients, whether or not in combination with other antivirals, immunomodulators, antibiotics or vaccines. Methods of treating AIDS and methods of preventing or treating infection by HIV are also described. These compounds are effective against HIV viral mutants which are resistant to HIV protease inhibitors currently used for treating AIDS and HIV infection.

IPC 1-7  
**A01N 43/16; A01N 43/36; A01N 43/40; A01N 43/42; A01N 43/76; A01N 43/78; A61K 31/35; A61K 31/40; A61K 31/42; A61K 31/44; C07D 405/14; C07D 207/16; C07D 277/06; C07D 311/68; C07D 405/12; C07D 413/12; C07D 417/12; C07D 417/14; C07D 491/04; A61K 45/06**

IPC 8 full level  
**A61K 31/401** (2006.01); **A61K 31/422** (2006.01); **A61K 31/426** (2006.01); **A61K 31/427** (2006.01); **A61K 31/4355** (2006.01); **A61K 31/4439** (2006.01); **A61K 45/00** (2006.01); **A61K 45/06** (2006.01); **A61P 31/18** (2006.01); **A61P 43/00** (2006.01); **C07D 207/16** (2006.01); **C07D 277/06** (2006.01); **C07D 311/68** (2006.01); **C07D 405/12** (2006.01); **C07D 405/14** (2006.01); **C07D 413/12** (2006.01); **C07D 417/12** (2006.01); **C07D 417/14** (2006.01); **C07D 491/04** (2006.01); **C07D 491/048** (2006.01)

CPC (source: EP)  
**A61K 45/06** (2013.01); **A61P 31/18** (2017.12); **A61P 43/00** (2017.12); **C07D 207/16** (2013.01); **C07D 277/06** (2013.01); **C07D 311/68** (2013.01); **C07D 405/12** (2013.01); **C07D 405/14** (2013.01); **C07D 413/12** (2013.01); **C07D 417/12** (2013.01); **C07D 417/14** (2013.01); **C07D 491/04** (2013.01)

Citation (search report)  

- [A] E. TAKASHIRO ET. AL.: "Structure-Activity Relationship of HIV-1 Protease Inhibitors containing alpha-Hydroxy-beta-Amino Acids. Detailed Study of P1 Site.", BIOORGANIC AND MEDICINAL CHEMISTRY LETTERS, vol. 7, 1999, pages 2063 - 72, XP002938999
- [A] T. PUNNIYAMURTHY ET. AL.: "Polyaniline Supported Cobalt(II) Salen Catalysed Synthesis of Pyrrolidine Containing alpha-Hydroxyamide Core Structures as Inhibitors for HIV Protease.", TETRAHEDRON LETTERS, vol. 38, no. 25, 1997, pages 4463 - 6, XP004073789
- See references of WO 0105230A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0105230 A1 20010125**; AU 6109500 A 20010205; CA 2375954 A1 20010125; EP 1202626 A1 20020508; EP 1202626 A4 20021030; JP 2003504383 A 20030204

DOCDB simple family (application)  
**US 0019626 W 20000719**; AU 6109500 A 20000719; CA 2375954 A 20000719; EP 00947506 A 20000719; JP 2001510308 A 20000719