

Title (en)
PROTEASE INHIBITORS

Title (de)
PROTEASE INHIBITOREN

Title (fr)
INHIBITEURS DE PROTEASE

Publication
EP 1153022 A1 20011114 (EN)

Application
EP 00910222 A 20000217

Priority
• US 0004133 W 20000217
• US 12069999 P 19990219

Abstract (en)
[origin: WO0049011A1] The present invention provides 7-14 membered ring ether protease inhibitors and pharmaceutically acceptable salts, hydrates and solvates thereof which inhibit proteases, including cathepsin K, pharmaceutical compositions of such compounds, novel intermediates of such compounds, and methods for treating diseases of excessive bone loss or cartilage or matrix degradation, including osteoporosis; gingival disease including gingivitis and periodontitis; arthritis, more specifically, osteoarthritis and rheumatoid arthritis; Paget's disease; hypercalcemia of malignancy; and metabolic bone disease, comprising inhibiting said bone loss or excessive cartilage or matrix degradation by administering to a patient in need thereof a compound of the present invention.

IPC 1-7
C07D 313/04; C07D 333/70; C07D 241/36; C07D 209/42; A61K 31/336; A61K 31/381; A61K 31/498; A61K 31/404

IPC 8 full level
A61K 31/335 (2006.01); **A61K 31/34** (2006.01); **A61K 31/343** (2006.01); **A61K 31/381** (2006.01); **A61K 31/404** (2006.01); **A61K 31/4709** (2006.01); **A61K 31/498** (2006.01); **A61P 1/02** (2006.01); **A61P 19/02** (2006.01); **A61P 19/08** (2006.01); **A61P 19/10** (2006.01); **A61P 29/00** (2006.01); **A61P 43/00** (2006.01); **C07D 313/18** (2006.01); **C07D 405/12** (2006.01); **C07D 407/12** (2006.01); **C07D 409/12** (2006.01); **C07D 498/04** (2006.01)

CPC (source: EP)
A61P 1/02 (2017.12); **A61P 19/02** (2017.12); **A61P 19/08** (2017.12); **A61P 19/10** (2017.12); **A61P 29/00** (2017.12); **A61P 43/00** (2017.12); **C07D 313/18** (2013.01); **C07D 405/12** (2013.01); **C07D 407/12** (2013.01); **C07D 409/12** (2013.01)

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 0049011 A1 20000824; AU 3235100 A 20000904; CO 5271679 A1 20030430; DZ 3083 A1 20040602; EP 1153022 A1 20011114; EP 1153022 A4 20020327; HK 1042695 A1 20020823; JP 2002537297 A 20021105; PE 20001486 A1 20010208

DOCDB simple family (application)
US 0004133 W 20000217; AU 3235100 A 20000217; CO 00011383 A 20000218; DZ 000030 A 20000216; EP 00910222 A 20000217; HK 02102419 A 20020328; JP 2000599751 A 20000217; PE 0001282000 A 20000218