Title (en)

PROTEASE INHIBITORS

Title (de)

PROTEASE-INHIBITOREN

Title (fr)

INHIBITEURS DE PROTEASES

Publication

EP 0977743 A1 20000209 (EN)

Application

EP 98918482 A 19980423

Priority

- US 9807942 W 19980423
- US 4490697 P 19970425

Abstract (en)

[origin: WO9849152A1] Compounds of formula (I), wherein R<l> is an aromatic or a heteroaromatic ring; R<2> and R<3> are H, C1-C8alkyl, aryl, arylC1-C8alkyl, or heteroaryl; R<4> is an aromatic or a heteroaromatic ring or an amine; W, X, Y, are independently selected from the group consisting of CH, N, S, or O, provided that at least one of W, X, and Y is a heteroatom, which inhibit protease, including cathepsin K, pharmaceutical compositions 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, osteoarthritis and rheumatoid arthritis; Paget's disease; hypercalcemia of malignancy; and metabolic bone disease therewith.

IPC 1-7

C07D 277/32; A61K 31/425

IPC 8 full level

A61K 31/426 (2006.01); **A61K 31/427** (2006.01); **A61K 31/4439** (2006.01); **A61K 31/4709** (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); **C07C 43/285** (2006.01); **C07C 43/295** (2006.01); **C07C 65/24** (2006.01); **C07C 69/92** (2006.01); **C07C 205/26** (2006.01); **C07C 205/37** (2006.01); **C07C 217/90** (2006.01); **C07C 235/28** (2006.01); **C07C 243/22** (2006.01); **C07C 335/26** (2006.01); **C07D 215/18** (2006.01); **C07D 215/227** (2006.01); **C07D 215/38** (2006.01); **C07D 277/20** (2006.01); **C07D 277/32** (2006.01); **C07D 277/56** (2006.01); **C07D 417/12** (2006.01); **C07F 5/02** (2006.01); C07D 215/22 (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); **C07C 43/285** (2013.01); **C07C 43/295** (2013.01); **C07C 65/24** (2013.01); **C07C 69/92** (2013.01); **C07C 205/26** (2013.01); **C07C 205/37** (2013.01); **C07C 217/90** (2013.01); **C07C 235/28** (2013.01); **C07C 243/22** (2013.01); **C07C 335/26** (2013.01); **C07D 215/18** (2013.01); **C07D 215/227** (2013.01); **C07D 215/38** (2013.01); **C07D 277/56** (2013.01); **C07D 417/12** (2013.01); **C07F 5/025** (2013.01)

Citation (search report)

See references of WO 9849152A1

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

WO 9849152 A1 19981105; AR 012603 A1 20001108; AU 7139598 A 19981124; CA 2287567 A1 19981105; CO 4950567 A1 20000901; EP 0977743 A1 20000209; JP 2002501502 A 20020115; MA 26486 A1 20041220; PE 68599 A1 19990926; ZA 988479 B 19981026

DOCDB simple family (application)

US 9807942 W 19980423; AR P980101930 A 19980424; AU 7139598 A 19980423; CA 2287567 A 19980423; CO 98022662 A 19980424; EP 98918482 A 19980423; JP 54708198 A 19980423; MA 25046 A 19980424; PE 00030398 A 19980423; ZA 988479 A 19980424