

Title (en)
PROTEASE INHIBITORS

Title (de)
PROTEASEINHIBITOREN

Title (fr)
INHIBITEURS DE PROTEASES

Publication
EP 0975612 A1 20000202 (EN)

Application
EP 98919821 A 19980415

Priority

- US 9807969 W 19980415
- US 4309697 P 19970415
- US 4453197 P 19970423

Abstract (en)
[origin: WO9846582A1] This invention relates to compounds of formula (I) wherein: X, Y and Z independently are N, O, S or CR', provided that at least two of X, Y and Z are heteroatoms and at least one of X, Y and Z is N; or one of X, Y and Z is C=N, C=C or N=N and the other two are CR' or N, provided that X, Y and Z together comprise at least two N; <u>---</u> indicates a single or double bond; R<1> is R", R"C(O), R"C(S), R"SO₂, R"OC(O), or R"OC(O)NR'CH(R<6>)C(O); R<2> is H, C1-6alkyl, C2-6alkenyl, Ar-C0-6alkyl, or Het-C0-6alkyl; R<3> is H, C1-6alkyl, C2-6alkenyl, C2-6alkynyl, C3-6cycloalkyl-C0-6alkyl, Ar-C0-6alkyl, or Het-C0-6alkyl; R<4> is H, C1-6alkyl, C2-6alkenyl, Ar-C0-6alkyl, or Het-C0-6alkyl; R<5> is C1-6alkyl, Ar-C0-6alkyl, Het-C0-6alkyl, CH(R<6>)NR'R<7>, CH(R<6>)Ar, CH(R<6>)OAr, or NR<8>R<9>; R₆, R₇, R₈ and R₉ are as defined in the description; R<10> is H, C1-6alkyl, C2-6alkenyl, C2-6alkynyl, C3-6cycloalkyl-C0-6alkyl, Ar-C0-6alkyl, or Het-C0-6alkyl; n is 1, 2 or 3; or a pharmaceutically acceptable salt thereof, which are inhibitors of cysteine proteases, particularly cathepsin K, and are useful in the treatment of diseases in which inhibition of bone loss is a factor.

IPC 1-7
C07D 277/04

IPC 8 full level
A61K 31/427 (2006.01); **A61K 31/4709** (2006.01); **A61K 31/4725** (2006.01); **A61P 1/02** (2006.01); **A61P 19/08** (2006.01); **A61P 19/10** (2006.01); **A61P 29/00** (2006.01); **A61P 43/00** (2006.01); **C07D 417/12** (2006.01); **C07D 417/14** (2006.01); **C07K 5/078** (2006.01)

CPC (source: EP)
A61P 1/02 (2017.12); **A61P 19/08** (2017.12); **A61P 19/10** (2017.12); **A61P 29/00** (2017.12); **A61P 43/00** (2017.12); **C07D 417/12** (2013.01); **C07D 417/14** (2013.01); **C07K 5/06139** (2013.01)

Designated contracting state (EPC)
BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
WO 9846582 A1 19981022; AR 012374 A1 20001018; AU 7252398 A 19981111; CA 2285601 A1 19981022; CO 4950541 A1 20000901; EP 0975612 A1 20000202; EP 0975612 A4 20010613; JP 2002515902 A 20020528

DOCDB simple family (application)
US 9807969 W 19980415; AR P980101627 A 19980408; AU 7252398 A 19980415; CA 2285601 A 19980415; CO 98020566 A 19980415; EP 98919821 A 19980415; JP 54437598 A 19980415