

Title (en)

1-AZETIDYL AND 1-HEXAMETHYLENIMINE ALKYL OR ARYL BISPHOSPHONIC ACIDS AND THEIR USE AS PHARMACOLOGICAL AGENTS

Publication

EP 0510066 A4 19921202 (EN)

Application

EP 91902492 A 19910103

Priority

US 46442390 A 19900112

Abstract (en)

[origin: WO9110646A1] This invention relates to compounds having: (A) a bisphosphonic acid endgroup; (B) an azetidine- or hexamethylenimine-derived azacyclic endgroup; and (C) an alkyl and/or aryl group linking the bisphosphonic acid and azacyclic groups through the nitrogen atom of the azacyclic group. These compounds are useful as agents for regulating the metabolism of polyvalent ions, particularly calcium. This invention relates also to pharmaceutical compositions including said compounds and to methods of treating conditions for which said metabolism is involved by using said compounds.

IPC 1-7

C07D 205/04; A61K 31/395

IPC 8 full level

A61K 31/675 (2006.01); **A61P 3/00** (2006.01); **A61P 3/14** (2006.01); **A61P 29/00** (2006.01); **A61P 43/00** (2006.01); **C07F 9/38** (2006.01); **C07F 9/40** (2006.01); **C07F 9/553** (2006.01); **C07F 9/568** (2006.01); **C07F 9/6561** (2006.01)

CPC (source: EP)

A61P 3/00 (2017.12); **A61P 3/14** (2017.12); **A61P 29/00** (2017.12); **A61P 43/00** (2017.12); **C07F 9/5532** (2013.01); **C07F 9/568** (2013.01); **C07F 9/6561** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9110646A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

WO 9110646 A1 19910725; AU 7165791 A 19910805; CA 2073448 A1 19910713; EP 0510066 A1 19921028; EP 0510066 A4 19921202; JP H05507061 A 19931014

DOCDB simple family (application)

US 9100055 W 19910103; AU 7165791 A 19910103; CA 2073448 A 19910103; EP 91902492 A 19910103; JP 50297691 A 19910103