

Title (en)

NOVEL HETERO PYRROLE ANALOGS ACTING ON CANNAPINOID RECEPTORS

Title (de)

NEUE HETEROPYRROLANALOGUE, DIE AUF CANNABINOIDREZEPTOREN WIRKEN

Title (fr)

NOUVEAUX ANALOGUES HÉTÉROPYRROLES AGISSANT SUR LES RÉCEPTEURS CANNABINOÏDES

Publication

**EP 2398323 A4 20120808 (EN)**

Application

**EP 09841603 A 20090219**

Priority

US 2009001054 W 20090219

Abstract (en)

[origin: WO2010104488A1] Disclosed are biologically active hetero pyrrole analogs such as imidazoles, thiazoles, oxazoles and pyrazoles capable of interacting with the CB1 and/or CB2 cannabinoid receptors. Aspects disclose hetero pyrrole analogs acting as CB1 and/or CB 1 receptor antagonists, having selectivity for the CB 1 or CB2 receptor, acting as neutral antagonists, acting preferentially on CB 1 receptors located in the peripheral nervous system, and/or acting as nitric oxide donors. Pharmaceutical preparations employing the disclosed analogs and methods of administering therapeutically effective amounts of the disclosed analogs to provide a physiological effect are also disclosed.

IPC 8 full level

**A01N 43/50** (2006.01); **A61K 31/415** (2006.01); **C07D 231/14** (2006.01); **C07D 233/90** (2006.01); **C07D 401/10** (2006.01); **C07D 405/04** (2006.01)

CPC (source: EP US)

**A61P 1/00** (2017.12 - EP); **A61P 1/08** (2017.12 - EP); **A61P 1/10** (2017.12 - EP); **A61P 1/16** (2017.12 - EP); **A61P 3/00** (2017.12 - EP); **A61P 3/04** (2017.12 - EP); **A61P 3/06** (2017.12 - EP); **A61P 3/10** (2017.12 - EP); **A61P 5/48** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 11/00** (2017.12 - EP); **A61P 11/06** (2017.12 - EP); **A61P 13/08** (2017.12 - EP); **A61P 15/00** (2017.12 - EP); **A61P 19/00** (2017.12 - EP); **A61P 19/02** (2017.12 - EP); **A61P 25/02** (2017.12 - EP); **A61P 25/06** (2017.12 - EP); **A61P 25/08** (2017.12 - EP); **A61P 25/14** (2017.12 - EP); **A61P 25/16** (2017.12 - EP); **A61P 25/18** (2017.12 - EP); **A61P 25/22** (2017.12 - EP); **A61P 25/24** (2017.12 - EP); **A61P 25/28** (2017.12 - EP); **A61P 25/30** (2017.12 - EP); **A61P 25/32** (2017.12 - EP); **A61P 25/34** (2017.12 - EP); **A61P 25/36** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **C07D 231/14** (2013.01 - EP US); **C07D 233/90** (2013.01 - EP US); **C07D 401/10** (2013.01 - EP US); **C07D 405/12** (2013.01 - EP US); **C07D 409/04** (2013.01 - EP US)

Citation (search report)

- [X] WO 2006074445 A2 20060713 - MAKRIYANNIS ALEXANDROS [US], et al
- [X] WO 2007061948 A2 20070531 - JANSSEN PHARMACEUTICA NV [BE], et al
- [X] FAN H ET AL: "Analogues of JHU75528, a PET ligand for imaging of cerebral cannabinoid receptors (CB1): Development of ligands with optimized lipophilicity and binding affinity", EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUE ELSEVIER, PARIS, FR, vol. 44, no. 2, 1 February 2009 (2009-02-01), pages 593 - 608, XP025950189, ISSN: 0223-5234, [retrieved on 20080418], DOI: 10.1016/J.EJMECH.2008.03.040
- See references of WO 2010104488A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2010104488 A1 20100916**; CA 2753061 A1 20100916; CA 2753061 C 20160809; EP 2398323 A1 20111228; EP 2398323 A4 20120808

DOCDB simple family (application)

**US 2009001054 W 20090219**; CA 2753061 A 20090219; EP 09841603 A 20090219