

Title (en)

N?6 -SUBSTITUTED 9-METHYLADENINES: A NEW CLASS OF ADENOSINE RECEPTOR ANTAGONISTS

Publication

**EP 0457773 A4 19930310 (EN)**

Application

**EP 90902050 A 19900116**

Priority

US 30434689 A 19890131

Abstract (en)

[origin: WO9009178A1] A series of N<6>-substituted adenines are disclosed to be antagonists of A2-adenosine receptor-mediated stimulation of adenylate cyclase in A2-adenosine receptors and antagonists of A1-adenosine receptor-mediated inhibition of adenylate cyclase. These compounds are useful in reversal of adenosine-mediated lipolysis, reversal of adenosine-mediated deleterious cardiovascular effects (conduction defects, hypotension), reversal of adenosine-mediated vascular actions in kidney, bronchodilation, antiarrhythmic action, reversal of adeno-mediated relaxation of smooth muscle, anti-narcoleptic action, CNS stimulation, and blockade of adenosine mediated inhibition of neurotransmitter release.

IPC 1-7

**A61K 31/52**; **C07D 473/34**; **C07D 473/18**

IPC 8 full level

**C07D 473/18** (2006.01); **C07D 473/34** (2006.01)

CPC (source: EP KR)

**C07D 473/18** (2013.01 - EP); **C07D 473/34** (2013.01 - EP KR)

Citation (search report)

- JP H0045758 B
- JP H006616 B
- [X] TETRAHEDRON vol. 28, no. 3, February 1972, GREAT BRITAIN pages 535 - 547 T. ITAYA ET. AL. 'Purines-6.'
- [X] CHEMICAL ABSTRACTS, vol. 103, no. 3, 22 July 1985, Columbus, Ohio, US; abstract no. 22353q, page 554 ;column 1 ;
- [X] THE JOURNAL OF ORGANIC CHEMISTRY vol. 48, no. 6, 25 March 1983, pages 850 - 855 NICO J. KOS 'Anion Formation and Ring Opening of 9-Substituted Purines in Liquid Ammonia Containing Potassium Amide.'
- See references of WO 9009178A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**US 9000210 W 19900116**; AU 4941490 A 19900116; EP 90902050 A 19900116; KR 900702209 A 19901005