

Title (en)

THE USE OF 1,4-DIARYL-DIHYDROPYRIMIDINE-2-ON DERIVATIVES FOR TREATING PULMONARY ARTERIAL HYPERTENSION

Title (de)

VERWENDUNG VON 1,4-DIARYL-DIHYDROPYRIMIDIN-2-ON-DERIVATEN ZUR BEHANDLUNG DER PULMONALEN ARTERIELLEN HYPERTONIE

Title (fr)

UTILISATION DE DÉRIVÉS DE 1,4-DIARYL-DIHYDROPYRIMIDIN-2-ONE POUR LE TRAITEMENT DE L'HYPERTENSION ARTÉRIELLE PULMONAIRE

Publication

**EP 2037930 A1 20090325 (DE)**

Application

**EP 07764815 A 20070625**

Priority

- EP 2007005579 W 20070625
- DE 102006031314 A 20060701

Abstract (en)

[origin: DE102006031314A1] Use of 1,4-diaryl-dihydropyrimidin-2-one derivative (I) or its salts, solvates or solvates of the salts, for producing a medicament for the treatment and/or prophylaxis of pulmonary arterial hypertension. Use of 1,4-diaryl-dihydropyrimidin-2-one derivative of formula (I) or its salts, solvates or solvates of the salts, for producing a medicament for the treatment and/or prophylaxis of the pulmonary arterial hypertension. R 1>H, -(CH 2) nC(=O)-O-R 5> or benzoic acid of formula (a) or (b); R 5>H or 1-4C-alkyl; R 2>CN or -C(=O)-R 6> or -C(=O)-O-R 6>; R 6>1-6C-alkyl or 3-6C-cycloalkyl (which is partially or substituted two times with hydroxy, 1-4C-alkoxy, hydroxycarbonyl, amino, mono- and/or di-1-4C-alkylamino, where respectively, CH 2 is replaced with an O-atom); R 3>, R 4>H, F or Cl; X : CH or N; and asterisk : connecting place with the N-atom. Independent claims are included for: (1) a combination comprising (I) and an active substance from kinase-inhibitor, stimulator and activator of the soluble guanylate cyclase, prostacyclin-analogues, endothelium receptor-antagonist and phosphodiesterase-inhibitors; (2) a medicament comprising the combination; and (3) method for the treatment and/or prophylaxis of the pulmonary arterial hypertension with humans and animals by administering (I), the combination or the medicament in combination with inert, non-toxic auxiliary materials. [Image] ACTIVITY : Hypotensive; Respiratory-Gen; Vulnerary; Respiratory-gen.; CNS-Gen; Thrombolytic; Antiinflammatory. MECHANISM OF ACTION : Neutrophile elastase inhibitor. The neutrophile elastase inhibitory activity of (I) was tested using human neutrophile elastase. The result showed that (I) exhibited a median inhibitory concentration (IC 50) of 14.8 nM.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2008003412A1

Citation (examination)

PETKOV V: "Pulmonary hypertension", JOURNAL FUER HYPERTONIE, vol. 7, no. 3, 2003, pages 7 - 15

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