

Title (en)

PHOSPHODIESTERASE ISOENZYME DENOMINATED 4 (PDE 4) INHIBITING COMPOUNDS

Title (de)

VERBDINUNGEN ZUR HEMMUNG VON PHOSPHODIESTERASE ISOENZYM 4 (PDE 4)

Title (fr)

COMPOSES INHIBANT L'ISOENZYME PHOSPHODIESTERASE 4 (PDE 4)

Publication

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Application

**EP 99919814 A 19990413**

Priority

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- US 8170298 P 19980414

Abstract (en)

[origin: WO9952847A1] This invention relates to ketones, alcohols and amines represented by the likes of 3-(3-cyclopentyloxy-4-methoxyphenyl)-3-phenylethynylcyclobutan-1-one. They are useful as PDE 4 antagonists.

IPC 1-7

**C07C 49/23; C07C 49/105; C07C 49/115; C07C 49/755; C07C 45/51; C07C 45/59; C07C 45/68; C07C 47/47; C07C 217/74; C07C 229/46; C07D 239/42**

IPC 8 full level

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Citation (search report)

- [A] WO 9631485 A1 19961010 - JANSSEN PHARMACEUTICA NV [BE], et al
- [A] US 3345405 A 19671003 - ALFRED BURGER
- [A] WO 9115451 A1 19911017 - SMITHKLINE BEECHAM PHARMA GMBH [DE], et al
- [A] US 5187192 A 19930216 - BROOKS DEE W [US], et al
- [A] HONDA T ET AL: "CHIRAL SYNTHESIS OF PHOSPHODIESTERASE INHIBITOR, (R)-(-)-ROLIPRAM, BY MEANS OF ENANTIOSELECTIVE DEPROTONATION STRATEGY", HETEROCYCLES, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 42, no. 1, January 1996 (1996-01-01), pages 109 - 111, XP002921368, ISSN: 0385-5414
- See references of WO 9952847A1

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