

Title (en)

PROCESS OF MAKING 3-ARYLOXY, 4-ARYL FURAN-2-ONES USEFUL AS INHIBITORS OF COX-2

Title (de)

VERFAHREN ZUR HERSTELLUNG VON 3-ARYLOXY-4-ARYL-FURAN-2-ONE ALS INHIBITOREN VON COX-2

Title (fr)

PROCEDE DE PREPARATION DE 3-ARYLOXY, 4-ARYL FURAN-2-ONES UTILES COMME INHIBITEURS DE COX-2

Publication

**EP 1017687 A4 20011031 (EN)**

Application

**EP 98947177 A 19980921**

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Abstract (en)

[origin: WO9915513A1] Described is a process of preparing 3-aryl, 4-aryloxy furan-5-ones which are useful as inhibitors of cyclooxygenase-2(COX-2). Such compounds are useful as anti-inflammatory agents. The process is directed to an asymmetric synthesis which involves: a trisubstituted styrene derivative preparation via Horner-Wadsworth-Emmons reaction and subsequent one pot trifluoromethylation of the allylic alcohol; preparation of the alpha-hydroxyl ketone using Sharpless asymmetric dihydroxylation and Swern oxidation; the esterification of the alpha-hydroxyl ketone with the phenoxy acetic acid; and the Dieckman condensation of the resulting ester.

IPC 1-7

**C07D 307/02**; **C07D 405/00**; **C07D 307/60**

IPC 8 full level

**C07D 307/60** (2006.01); **C07D 405/10** (2006.01)

CPC (source: EP)

**C07D 307/60** (2013.01)

Citation (search report)

- [DA] WO 9714691 A1 19970424 - MERCK FROSST CANADA INC [CA], et al
- [A] US 5352832 A 19941004 - WU GUANG-ZHONG [US], et al
- [PX] TAN L ET AL: "An Efficient Asymmetric Synthesis of A Potent COX-2 Inhibitor L-784,512", TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 39, no. 23, 4 June 1998 (1998-06-04), pages 3961 - 3964, XP004118785, ISSN: 0040-4039
- See references of WO 9915513A1

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**US 9819642 W 19980921**; AU 2247599 A 19980921; CN 98809463 A 19980921; EA 200000350 A 19980921; EP 98947177 A 19980921; JP 2000512820 A 19980921; SK 4202000 A 19980921