

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

Priority

- GB 9815805 A 19980721
- US 9819642 W 19980921
- US 6069497 P 19970924

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

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

WO 9915513 A1 19990401; AU 2247599 A 19990412; CN 1271352 A 20001025; EA 002690 B1 20020829; EA 200000350 A1 20001030; EP 1017687 A1 20000712; EP 1017687 A4 20011031; JP 2001517661 A 20011009; JP 3516658 B2 20040405; SK 4202000 A3 20001009

DOCDB simple family (application)

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