

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

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Application

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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.

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