Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

FK 3311

Catalog No: tcsc1360

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
116686-15-8

Formula:
$C_{15}H_{13}F_2NO_4S$

Pathway:
Immunology/Inflammation

Target:
COX

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
COX-2 Inhibitor V

Observed Molecular Weight:
341.33

Product Description

FK 3311 is a selective inhibitor of COX-2; antiinflammatory agent.

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

IC50 Value: 1.6 uM [1]

Target: COX-2

Cyclooxygenase (COX) is an intracellular enzyme that converts arachidonic acid into prostaglandin (PG)G2 and PGH2.

in vitro: The racemic mixtures and the (R)- and (S)-isomers of the 2 metabolites were inactive in the PGE2 test. IC50 values were more than 100 uM for (2 and 5), compared to 1.6 uM for FK-3311. Antiinflammatory activity was assessed by inhibition of adjuvant-induced arthritis, and analgesic activity was determined in the acetic acid-induced writhing assay. Following p.o. administration of 10 mg/kg, racemic (2) and its optical isomers showed activity comparable to FK-3311 (76% inhibition) in the adjuvant arthritis test, whereas racemic (5) showed very weak activity, and (R)- and (S)-(5) were not tested. With regard to analgesic effects, FK-3311 and racemic (2) showed 81 and 62% inhibitions, respectively, at a dose of 100 mg/kg p.o. The (R)- and (S)-isomers of (2) and racemic (5) all showed 46% inhibition of writhing syndrome. (R)- and (S)-(5) were less active showing 16 and 20% inhibitions, respectively[1].

in vivo: L-PVR, CO, PaO(2), and WDR were significantly (P