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

CJ-42794

Catalog No: tcsc5287

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
847728-01-2

Formula:
$C_{22}H_{17}ClFNO_4$

Pathway:
GPCR/G Protein

Target:
Prostaglandin Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 28 mg/mL (67.66 mM)

Alternative Names:
CJ-042794

Observed Molecular Weight:
413.83

Product Description

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CJ-42794 is a selective prostaglandin E receptor subtype 4

(EP4) antagonist, inhibits [3H]-PGE2 binding to the human EP4 receptor with a mean pKi of 8.5, a binding affinity that was at least 200-fold more selective for the human EP4 receptor than other human EP receptor subtypes (EP1, EP2, and EP3).

IC50 value: 8.5 (pKi) [1]

Target: EP4

in vitro: CJ-042794 competitively inhibits PGE2-evoked elevations of intracellular cAMP levels in HEK293 cells overexpressing human EP4receptor with a mean pA2 value of 8.6. PGE2 inhibits the lipopolysaccharide (LPS)-induced production of tumor necrosis factor α (TNFα) in human whole blood (HWB); CJ-042794 reverses the inhibitory effects of PGE2 on LPS-induced TNFα production in a concentration-dependent manner. [1]

in vivo: CJ-42794 significantly delays the ulcer healing in rats and mice. The expression of VEGF in primary rat gastric fibroblasts was increased by PGE2 or AE1-329 (EP4 agonist), and these responses were both attenuated by coadministration of CJ-42794.[2]