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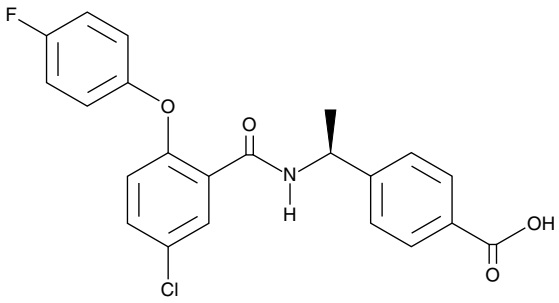
Product Information

CJ-42794

Item No. 10010428

CAS Registry No.: 847728-01-2
Formal Name: 4-[(1S)-1-[[5-chloro-2-(4-fluorophenoxy) benzoyl]amino]ethyl]-benzoic acid
Synonym: RQ-00015986
MF: $C_{22}H_{17}ClFNO_4$
FW: 413.8
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 234 nm



Laboratory Procedures

For long term storage, we suggest that CJ-42794 be stored as supplied at -20°C. It should be stable for at least two years.

CJ-42794 is supplied as a crystalline solid. A stock solution may be made by dissolving the CJ-42794 in the solvent of choice. CJ-42794 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of CJ-42794 in ethanol and DMSO is approximately 25 mg/ml approximately 30 mg/ml in DMF.

CJ-42794 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CJ-42794 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CJ-42794 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Prostaglandin E_2 (PGE_2) activates four E prostanoid (EP) receptors, $EP_{1\text{-}4}$. EP_4 is a Gs protein-coupled receptor that, by elevating the second messenger cAMP, plays important roles in bone formation and resorption, cancer, and atherosclerosis.[1-3] CJ-42794 is a selective antagonist of EP_4 (K_i = 3.16 nM) that less potently binds EP_2 (K_i = 631 nM) and has no affinity for EP_1 or EP_3.[4,5] It has minimal effect on numerous other receptors, enzymes, or channels.[5] Unlike general inhibitors of PGE_2 synthesis, CJ-42794 does not cause damage to rat gastrointestinal mucosa.[4] Instead, it delays the healing of gastric ulcers in mice and rats, suppressing the upregulation of VEGF expression and angiogenesis.[6] CJ-42794 blocks pain and inflammation in rat models of arthritis as well as gastric tumorigenesis in mice.[7,8]

References

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