

Product Name	: CJ-42794
Synonyms	: CJ-042794
Cat No.	: M26652
CAS Number	: 847728-01-2
Molecular Formula	: C22H17ClFNO4
Formula Weight	: 413.8
Chemical Name	: —
Description	<p>CJ-42794 is a selective antagonist of prostaglandin E receptor subtype 4 (EP4). It inhibits [3H]-PGE2 binding to the human EP4 receptor (a mean pKi: 8.5). CJ-42794 is 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 : 8.5 (pKi)). (In Vitro): 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. CJ-042794 reverses the inhibitory effects of PGE2 on LPS-induced TNFα production in a concentration-dependent manner. (In Vivo): CJ-42794 significantly delays the ulcer healing in rats and mice and these responses were both attenuated by coadministration of CJ-42794.</p>
Pathway	: Others
Target	: Other Targets
Receptor	: human D2 receptor; human D3 receptor; human D4 receptor
Solubility	: —
SMILES	: <chem>C[C@H](NC(=O)c1cc(Cl)ccc1Oc1ccc(F)cc1)c1ccc(cc1)C(=O)O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Bristow LJ, et al. Schizophrenia and L-745,870, a novel dopamine D4 receptor antagonist. Trends Pharmacol Sci. 1997 Jun;18(6):186-8.