

Product Data Sheet

Product Name: L-902688

Cat. No.: GC44023

Chemical Properties

Cas. No. 634193-54-7

SMILES [H]N1C(CCCCCCN2[C@@H](/C=C/[C@](O)([H])C(F)(F)C3=CC=CC=C3)CCC2=O)=N
N=N1

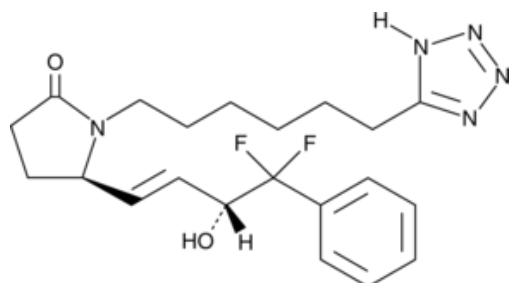
Formula $C_{21}H_{27}F_2N_5O_2$ M.Wt 419.5

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:1): 0.5 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Prostaglandin E2 (PGE2) activates four E prostanoid (EP) receptors, EP1-4. EP4 is a Gs protein-coupled receptor that, by elevating the second messenger cAMP, plays important roles in bone formation and resorption, cancer, and atherosclerosis. L-902688 is a highly potent agonist of the human PGE2 receptor, EP4. It demonstrates a K_i value of 0.38 nM and an EC_{50} value of 0.6 nM and is >4,000-fold selective for EP4 over other EP and prostanoid receptors. L-902688 induces thermal hyperalgesia when injected into guinea pig forepaw and increases vasodilation of human pulmonary vein.

Caution: Product has not been fully validated for medical applications. For research use only.

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