

CAY10597

Chemical Properties

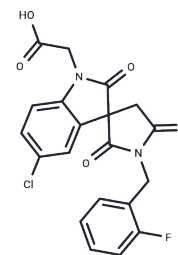
CAS No. : 916046-55-4

Formula: C₂₀H₁₄ClFN₂O₅

Molecular Weight: 416.79

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	The biological effects of prostaglandin D ₂ (PGD ₂) are transduced by at least two 7-transmembrane G protein-coupled receptors, designated DP1 and CRTH2/DP2. In humans, CRTH2/DP2 is expressed on Th2 cells, eosinophils, and basophils where it mediates the chemotactic activity of PGD ₂ . CAY10597, as a racemic mixture, is a potent CRTH2/DP2 receptor antagonist that binds to the human receptor with a K _i value of 37 nM. The R enantiomer is slightly more potent exhibiting K _i values of 23 and 22 nM at the human and murine CRTH2/DP2 receptor, respectively. The R enantiomer of CAY10597 inhibits eosinophil chemotaxis induced by 13,14-dihydro-15-keto-prostaglandin D ₂ with an IC ₅₀ value of 40 nM.
Targets(IC ₅₀)	Others,Prostaglandin Receptor

Solubility Information

Solubility	Ethanol: 20 mg/mL (47.99 mM),Sonication is recommended. PBS (pH 7.2): 0.3 mg/mL (0.72 mM),Sonication is recommended. DMF: 30 mg/mL (71.98 mM),Sonication is recommended. DMSO: 30 mg/mL (71.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3993 mL	11.9964 mL	23.9929 mL
5 mM	0.4799 mL	2.3993 mL	4.7986 mL
10 mM	0.2399 mL	1.1996 mL	2.3993 mL
50 mM	0.048 mL	0.2399 mL	0.4799 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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