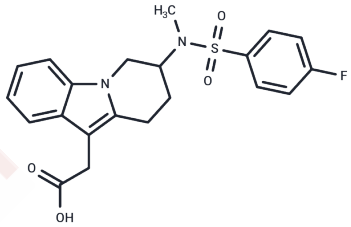
Data Sheet (Cat.No.T10891)

TargetMol

CRTH2-IN-1

Chemical Properties



CAS No. : 926661-54-3

Formula: C21H21FN2O4S

Molecular Weight: 416.47

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	CRTH2-IN-1 is a selective prostaglandin D2 receptor DP2 (CRTH2) antagonist, a Ramatroban analog, with an IC50 of 6 nM in the human DP2 binding assay.
Targets(IC50)	Cytochromes P450,Prostaglandin Receptor
In vitro	CRTH2-IN-1 (Ramatroban analog) is a new type of prostaglandin D2 receptor DP2 (CRTH2) antagonist with IC50 of 7 nM in human whole blood eosinophil deformation assay (hESC). It has efficacy in a mouse model of allergic rhinitis. Using 3H-PGD2 and human platelet membrane for human prostaglandin D1 receptor (hDP1) binding. Human thromboxane receptor (hTP) binding was performed using human platelet membrane and 3H-SQ-29,548. HIP / 293 membrane and 3Hiloprost were used for human prostacyclin receptor (hIP) binding. CRTH2-IN-1 inhibits hDP1 binding with IC50 of 1 μM. CRTH2-IN-1 inhibits the combination of hTP and hIP with IC50 greater than 100 μM. CRTH2-IN-1 inhibits human CYP subtypes CYP3A4, CYP 2C9 and CYP2D6 with IC50 of 7, 5 and> 30 μM, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4011 mL	12.0057 mL	24.0113 mL
5 mM	0.4802 mL	2.4011 mL	4.8023 mL
10 mM	0.2401 mL	1.2006 mL	2.4011 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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.

Reference

Stearns BA, et al. Novel tricyclic antagonists of the prostaglandin D2 receptor DP2 with efficacy in a murine modelof allergic rhinitis. Bioorg Med Chem Lett. 2009 Aug 15;19(16):4647-51.

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