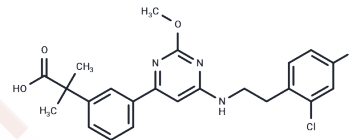


PGD2-IN-1

Chemical Properties

CAS No. :	885066-67-1
Formula:	C ₂₃ H ₂₃ Cl ₂ N ₃ O ₃
Molecular Weight:	460.35
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	PGD2-IN-1 (PGD2-inhibitor) is an effective DP receptor antagonist (IC ₅₀ :0.3 nM), a compound that can inhibit prostaglandin D ₂ (PGD ₂) signaling. PGD2-IN-1 specifically targets and regulates the activity of PGD ₂ receptors or enzymes involved in PGD ₂ synthesis or metabolism.
Targets(IC ₅₀)	Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 45 mg/mL (97.75 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.34 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1723 mL	10.8613 mL	21.7226 mL
5 mM	0.4345 mL	2.1723 mL	4.3445 mL
10 mM	0.2172 mL	1.0861 mL	2.1723 mL
50 mM	0.0434 mL	0.2172 mL	0.4345 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

Mu L, et al. Understanding DP receptor antagonism using a CoMSIA approach. Bioorg Med Chem Lett. 2011 Jan 1; 21(1):66-75.

Patent: WO/2006/044732A2

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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