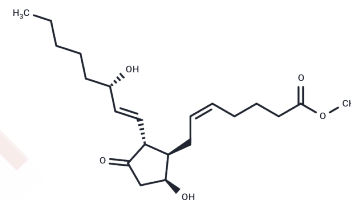


Prostaglandin D2 methyl ester

Chemical Properties

CAS No. :	49852-81-5
Formula:	C ₂₁ H ₃₄ O ₅
Molecular Weight:	366.498
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	Prostaglandin D2 (PGD2) is the major eicosanoid product of mast cells and is produced in large quantities by hematopoietic PGD synthase during allergic and asthmatic anaphylaxis. It causes vasodilation, flushing, hypotension, and is an inhibitor of platelet aggregation. Prostaglandin D2 methyl ester (PGD2 methyl ester) is a more lipid-soluble, cell-permeable prodrug form of PGD2. It binds to the human and mouse PGD2 receptors (DP1 and CRTH2/DP2) with 5-10 fold lower affinity than PGD2.
Targets(IC50)	Others, Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 50 mg/mL (136.43 mM), Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.73 mM), Sonication is recommended. DMF: 50 mg/mL (136.43 mM), Sonication is recommended. Ethanol: 50 mg/mL (136.43 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	2.7285 mL	13.6426 mL	27.2851 mL
5 mM	0.5457 mL	2.7285 mL	5.457 mL
10 mM	0.2729 mL	1.3643 mL	2.7285 mL
50 mM	0.0546 mL	0.2729 mL	0.5457 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

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