Data Sheet (Cat.No.T38195)

TargetMol

Prostaglandin F2α Ethanolamide

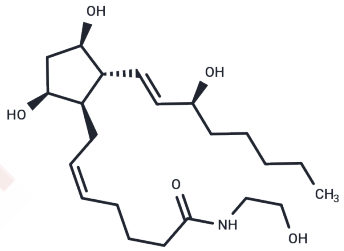
Chemical Properties

CAS No. : 353787-70-9

Formula: C22H39NO5

Molecular Weight: 397.55

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 F2α ethanolamide (PGF2α-EA) is produced by COX-2 metabolism of the endogenous cannabinoid, arachidonoyl ethanolamide (AEA), found in brain, liver, and other mammalian tissues. AEA can be metabolized directly by the sequential action of COX-2 and specific PG synthases to produce ethanolamide congeners of the classical PGs. PGF2α-EA has also been reported to be biosynthesized by this mechanism when AEA was infused into the lung and liver of living mice. PGF2α-EA is a potent dilator (EC50 = 58 nM) of the cat iris sphincter, which is a model system for testing potential intraocular hypotensive agents.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL (25.15 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (25.15 mM),Sonication is recommended. DMF: Miscible Ethanol: Miscible (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5154 mL	12.577 mL	25.1541 mL
5 mM	0.5031 mL	2.5154 mL	5.0308 mL
10 mM	0.2515 mL	1.2577 mL	2.5154 mL
50 mM	0.0503 mL	0.2515 mL	0.5031 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481