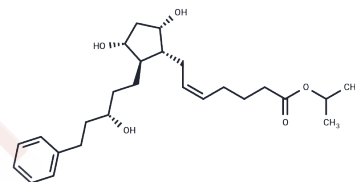


15(S)-Latanoprost

Chemical Properties

CAS No. :	145773-22-4
Formula:	C ₂₆ H ₄₀ O ₅
Molecular Weight:	432.59
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	15(S)-Latanoprost is an analog of latanoprost in which the hydroxyl at carbon 15 is inverted relative to latanoprost. The IC ₅₀ values for the free acid forms of latanoprost and 15(S)-latanoprost were determined to be 3.6 nM and 24 nM, respectively, in a FP receptor binding assay using the cat iris sphincter muscle. A 3 µg dose of 15(S)-latanoprost caused a 1 mmHg reduction of IOP in normotensive cynomolgus monkeys. 15(S)-Latanoprost is a potential impurity in most commercial preparations of the latanoprost bulk drug product.
Targets(IC50)	Others, Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 100 mg/mL (231.17 mM), Sonication is recommended. DMSO:PBS (1:12): 80 µg/mL, Sonication is recommended. DMF: 100 mg/mL (231.17 mM), Sonication is recommended. Ethanol: 100 mg/mL (231.17 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	2.3117 mL	11.5583 mL	23.1166 mL
5 mM	0.4623 mL	2.3117 mL	4.6233 mL
10 mM	0.2312 mL	1.1558 mL	2.3117 mL
50 mM	0.0462 mL	0.2312 mL	0.4623 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