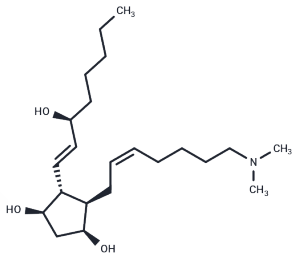
Data Sheet (Cat.No.T87254)

TargetMol

Prostaglandin F2α dimethyl amine

Chemical Properties



CAS No. : 67508-09-2

Formula: C22H41NO3

Molecular Weight: 367.57

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 dimethyl amine, a Prostaglandin F2α derivative, acts as an antagonist for the Prostaglandin F receptor (FP) [1]. It blocks the cardiovascular responses induced by orexin and Arachidonic acid [2].
Targets(IC50)	Prostaglandin Receptor
In vivo	Prostaglandin F2α dimethyl amine (50 μg, intra-cerebroventricular injection) is capable of preventing the pressor and tachycardic effects induced by orexin and arachidonic acid in Sprague-Dawley rats [2]. Animal Model: Orexin-induced cardiovascular response in Sprague Dawley rats [2]. Dosage: 50 μg. Administration: i.c.v for a single dose. Result: Prevented the pressor and tachycardic effects.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7206 mL	13.6029 mL	27.2057 mL
5 mM	0.5441 mL	2.7206 mL	5.4411 mL
10 mM	0.2721 mL	1.3603 mL	2.7206 mL
50 mM	0.0544 mL	0.2721 mL	0.5441 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.

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