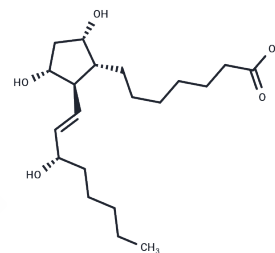


Prostaglandin F1 $\alpha$ 

## Chemical Properties

CAS No. :	745-62-0
Formula:	C <sub>20</sub> H <sub>36</sub> O <sub>5</sub>
Molecular Weight:	356.5
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Prostaglandin F1 $\alpha$ (PGF1 $\alpha$ ) is a lipid mediator and an endogenous metabolite of prostacyclin, primarily metabolised from DGLA via the COX pathway, and can dose-dependently regulate smooth muscle contraction.
Targets(IC50)	Endogenous Metabolite, Prostaglandin Receptor

## Solubility Information

Solubility	Ethanol: 40 mg/mL (112.2 mM), Sonication is recommended. DMF: 40 mg/mL (112.2 mM), Sonication is recommended. DMSO: 40 mg/mL (112.2 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	2.805 mL	14.0252 mL	28.0505 mL
5 mM	0.561 mL	2.805 mL	5.6101 mL
10 mM	0.2805 mL	1.4025 mL	2.805 mL
50 mM	0.0561 mL	0.2805 mL	0.561 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

Wood EM,et,al. Prostaglandins in biofluids in pregnancy and labour: A systematic review. PLoS One. 2021 Nov 18; 16(11):e0260115.

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Abrams RPM,et,al. Therapeutic candidates for the Zika virus identified by a high-throughput screen for Zika protease inhibitors. Proc Natl Acad Sci U S A. 2020 Dec 8;117(49):31365-31375.

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