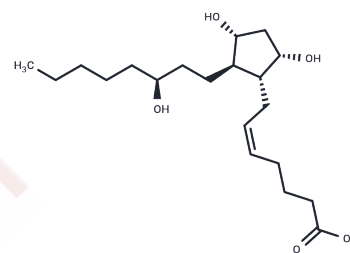


13,14-dihydro Prostaglandin F2 α

Chemical Properties

CAS No. :	27376-74-5
Formula:	C ₂₀ H ₃₆ O ₅
Molecular Weight:	356.503
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	13,14-dihydro Prostaglandin F2 α (13,14-dihydro PGF2 α) is an analog of PGF2 α lacking unsaturation in the lower side chain. It induces luteolysis in hamsters with a potency five times greater than PGF2 α . The ED50 value for 13,14-dihydro PGF2 α as a luteolytic agent in hamsters is 1.5 μ g/100 g.[1]
Targets(IC50)	Others,Prostaglandin Receptor

Solubility Information

Solubility	Ethanol: >100 mg/mL (from PGF2a),Sonication is recommended. DMF: >100 mg/mL (from PGF2a),Sonication is recommended. DMSO: >100 mg/mL (from PGF2a),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

Andersen, N.H., Imamoto, S., Subramanian, N., et al. Molecular basis for prostaglandin potency. III. Tests of the significance of the 'hairpin conformation' in biorecognition phenomena. Prostaglandins 22, 841-856 (1981).

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