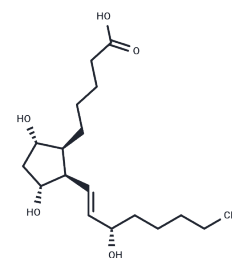


2,3-dinor-8-iso Prostaglandin F1 α

Chemical Properties

CAS No. :	221664-04-6
Formula:	C ₁₈ H ₃₂ O ₅
Molecular Weight:	328.40
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	2,3-Dinor-8-iso Prostaglandin F1 α (2,3-dinor-8-iso PGF1 α), an isoprostane and active metabolite of arachidonic acid deriving its formation from non-enzymatic free radical peroxidation, acts as an active metabolite of the platelet aggregation inhibitor 8-iso PGF2 α . This compound exhibits vasoconstrictive properties in isolated porcine retinal and brain microvessels with EC ₅₀ values of 12.8 and 18.5 nM, respectively, yet it does not cause contraction in isolated rat aortic rings at a concentration of 31 μ M. Further, at a concentration of 1 μ M, it raises thromboxane B2 (TXB2) levels in isolated porcine brain slices, an effect reversible by thromboxane A synthase inhibitor CGS 12970, voltage-gated calcium channel inhibitor SKF 96365, or the nicotinic acetylcholine receptor (nAChR) antagonist α -conotoxin.
Targets(IC50)	Others, Drug Metabolite

Solubility Information

Solubility	Ethanol: >75 mg/ml (from PGF1.alpha.), Sonication is recommended. PBS pH 7.2: >2 mg/ml (from PGF1.alpha.), Sonication is recommended. DMSO: >50 mg/ml (from PGF1.alpha.), Sonication is recommended. DMF: >50 mg/ml (from PGF1.alpha.), 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	3.0451 mL	15.2253 mL	30.4507 mL
5 mM	0.609 mL	3.0451 mL	6.0901 mL
10 mM	0.3045 mL	1.5225 mL	3.0451 mL
50 mM	0.0609 mL	0.3045 mL	0.609 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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