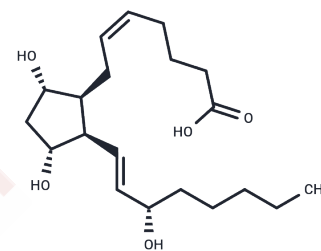


8-Isoprostaglandin F2 α

Chemical Properties

CAS No. :	27415-26-5
Formula:	C ₂₀ H ₃₄ O ₅
Molecular Weight:	354.48
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	8-Isoprostaglandin F2 α is a non-enzymatically generated isoprostane derived from arachidonic acid peroxidation in membrane phospholipids, present in human plasma in both esterified and free acid forms. 8-Isoprostaglandin F2 α functions as a weak thromboxane prostanoid receptor agonist in vascular smooth muscle, making it a reliable biomarker of oxidative stress.
Targets(IC50)	Endogenous Metabolite
In vivo	In animal models, the infusion of 8-Isoprostaglandin F2 α induces renal vasoconstriction and results in a decreased glomerular filtration rate (GFR) [1][2].

Solubility Information

Solubility	DMF: >100 mg/mL, Sonication is recommended. PBS (pH 7.2): 3 mg/mL (8.46 mM), Sonication is recommended. DMSO: 80 mg/mL (225.68 mM), Sonication is recommended. Ethanol: >100 mg/mL, 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	2.821 mL	14.1052 mL	28.2103 mL
5 mM	0.5642 mL	2.821 mL	5.6421 mL
10 mM	0.2821 mL	1.4105 mL	2.821 mL
50 mM	0.0564 mL	0.2821 mL	0.5642 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

Morrow J D, et al. A series of prostaglandin F₂-like compounds are produced in vivo in humans by a non-cyclooxygenase, free radical-catalyzed mechanism[J]. Proceedings of the National Academy of Sciences, 1990, 87 (23): 9383-9387.

Montuschi P, et al. Isoprostanes: markers and mediators of oxidative stress[J]. The FASEB journal, 2004, 18(15): 1791-1800.

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