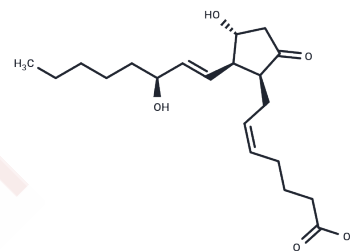


8-iso Prostaglandin E2

Chemical Properties

CAS No. :	27415-25-4
Formula:	C ₂₀ H ₃₂ O ₅
Molecular Weight:	352.47
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	8-iso PGE2 is one of several isoprostanes produced from arachidonic acid during lipid peroxidation. It is a potent renal vasoconstrictor in the rat. 8-iso PGE2 inhibits U-46619 or I-BOP-induced platelet aggregation with IC ₅₀ values of 0.5 and 5 μM, respectively. When infused into the renal artery of the rat at a concentration of 4 μg/kg/min, 8-iso PGE2 decreases the GFR and renal plasma flow by 80% without affecting blood
Targets(IC ₅₀)	Others, Prostaglandin Receptor

Solubility Information

Solubility	PBS (pH 7.2): >5 mg/mL (from PGE2), Sonication is recommended. DMSO: >100 mg/mL (from PGE2), Sonication is recommended. Ethanol: >100 mg/mL (from PGE2), Sonication is recommended. DMF: >100 mg/mL (from PGE2), 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	2.8371 mL	14.1856 mL	28.3712 mL
5 mM	0.5674 mL	2.8371 mL	5.6742 mL
10 mM	0.2837 mL	1.4186 mL	2.8371 mL
50 mM	0.0567 mL	0.2837 mL	0.5674 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

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