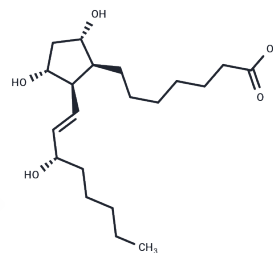


8-iso Prostaglandin F1 α

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 26771-96-0 |
| Formula: | C ₂₀ H ₃₆ O ₅ |
| 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 | 8-iso Prostaglandin F1 α is an isoprostaglandin produced from arachidonic acid that induces concentration-dependent vasoconstrictor effects in pulmonary arteries (PA), pulmonary veins (PV) and mesenteric arteries (MA) through activation of TXA ₂ R, tyrosine kinases and Rho kinases. |
| Targets(IC50) | Rho,PPAR,Tyrosinase |

Solubility Information

| | |
|------------|---|
| Solubility | PBS pH 7.2: 0.5 mg/mL (1.4 mM),Sonication is recommended. DMF: 20 mg/mL (56.1 mM),Sonication is recommended. Ethanol: 20 mg/mL (56.1 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.81 mM),Sonication is recommended. DMSO: 20 mg/mL (56.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

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

K. Svanborg, M. Bygdeman, & P. Eneroth. (1983). The F and 19-hydroxy F prostaglandins and their 8 β -isomers in human seminal plasma: Data on chromatography and mass spectrometry. *Biomedical Mass Spectrometry*, 10(9), 495-498.

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