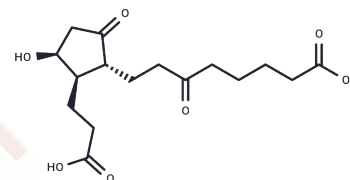


tetranor-PGDM

Chemical Properties

CAS No. :	70803-91-7
Formula:	C ₁₆ H ₂₄ O ₇
Molecular Weight:	328.361
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	Prostaglandin D ₂ is synthesized by hematopoietic-type PGD-synthase (H-PGDS) in mast cells and is released in large quantities during allergic and asthmatic anaphylaxis. PGD ₂ is also produced in the brain by lipocalin-PGD-synthase also known as β-trace. In the brain, PGD ₂ produces normal physiological sleep and lowering of body temperature. Further pharmacological actions include inhibition of platelet aggregation and relaxation of vascular smooth muscle. tetranor-PGDM is a major metabolite of PGD ₂ that is detectable in human and mouse urine. The levels of tetranor-PGDM and 2,3-dinor-11β-PGF ₂ α, a related PGD ₂ metabolite, in human urine were found to be 1.5 ± 0.3 and 0.6 ± ng/mg creatinine, respectively. tetranor-PGDM was detected in murine urine at a level of 8.1 ± 1.3 ng/mg creatinine.
Targets(IC ₅₀)	Others,Prostaglandin Receptor

Solubility Information

Solubility	DMF: 50 mg/mL (152.27 mM),Sonication is recommended. DMSO: 50 mg/mL (152.27 mM),Sonication is recommended. Ethanol: 50 mg/mL (152.27 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (3.05 mM),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	3.0454 mL	15.2272 mL	30.4544 mL
5 mM	0.6091 mL	3.0454 mL	6.0909 mL
10 mM	0.3045 mL	1.5227 mL	3.0454 mL
50 mM	0.0609 mL	0.3045 mL	0.6091 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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