

Product Data Sheet

Product Name: tetranor-PGDM

Cat. No.: GC45025

Chemical Properties

Cas. No. 70803-91-7

SMILES O[C@@H]1[C@H](CCC(O)=O)[C@@H](CCC(CCCCC(O)=O)=O)C(C1)=O

Formula C₁₆H₂₄O₇

M.Wt 328.4

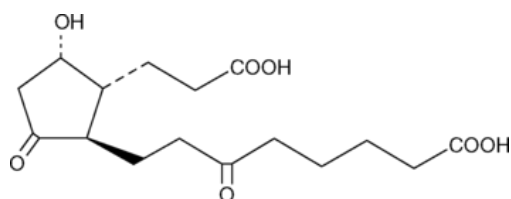
Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 1 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Prostaglandin D₂ is synthesized by hematopoietic-type PGD-synthase (H-PGDS) in mast cells and is released in large quantities during allergic and asthmatic anaphylaxis. PGD₂ is also produced in the brain by lipocalin-PGD-synthase also known as β -trace. In the brain, PGD₂ 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 PGD₂ that is detectable in human and mouse urine. The levels of tetranor-PGDM and 2,3-dinor-11 β -PGF₂ α , a related PGD₂ metabolite, in human urine were found to be 1.5 ± 0.3 and $0.6 \pm$ ng/mg creatinine, respectively. tetranor-PGDM was detected in murine urine at a level of 8.1 ± 1.3

Caution: Product has not been fully validated for medical applications. For research use only.

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