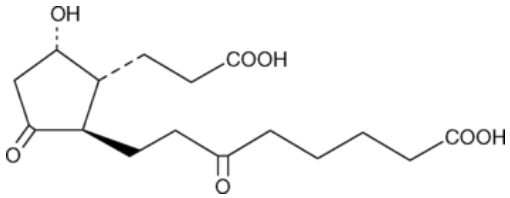
Product Data Sheet

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-11β-PGF2α , a related PGD2 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.