Product Data Sheet

Product Name: 2,3-dinor Prostaglandin E1
Cat. No.: GC18830

Chemical Properties

Cas. No.	7046-40-4		
Chemical Name	9-oxo-11α,15S-dihydroxy-2,3-dinor-prost-13E-en-1-oic acid		
SMILES	O=C1[C@H](CCCCC(O)=O)[C@@H](/C=C/[C@@H](O)CCCCC)[C@H](O)C1		
Formula	$C_{18}H_{30}O_5$	M.Wt	326.4
Solubility	DMF: >100 mg/ml,DMSO: >50 mg/ml,Ethanol: >50 mg/ml,PBS (pH 7.2): 1.67 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	2,3-dinor Prostaglandin E1		

Background

Prostaglandin E1 (PGE1) is not a major naturally occurring prostaglandin, but it is widely administered clinically for several indications including peripheral occlusive vascular disease, erectile dysfunction and in neonatal cardiology. The metabolism of PGE1 is normally initiated by oxidation at C-15, resulting in 13,14-dihydro-15-keto PGE1 as the major metabolite. However, inhibition of this pathway or saturation by excess substrate could theoretically lead to enhanced production of 2,3-dinor metabolites, including 2,3-dinor PGE1. The biological activity of 2,3-dinor PGE1 has not been published.

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