
Product Data Sheet

Product Name: 1a,1b-dihomo Prostaglandin E1

Cat. No.: GC18748

Chemical Properties

Cas. No. 23452-98-4

Chemical Name 9-oxo-11 α ,15S-dihydroxy-1a,1b-dihomo-prost-13E-en-1-oic acidSMILES CCCCC(O)/C=C/[C@H]1C(O)CC(=O)C1CCCCCCCCC(=O)OFormula C₂₂H₃₈O₅

M.Wt 382.5

Solubility	DMF: >100 mg/ml (from PGE1), DMSO: >50 mg/ml (from PGE1), Ethanol: >50 mg/ml (from PGE1), PBS pH 7.2: >1.6 mg/ml (from PGE1)	Store Storage at - 20°C
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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 E1 (PGE1) is not a major naturally occurring PG, but is widely administered clinically for several indications including peripheral occlusive vascular disease, erectile dysfunction, and in neonatal cardiology. COX metabolism of the unusual fatty acid 10,13,16-docosatrienoic acid yields 1a,1b-dihomo PGE1. This rare metabolite has been recovered from incubations of whole sheep seminal vesicles, but has not been reported in humans. In ex vivo preparations of rat aorta and rat PRP, 1a,1b-dihomo PGE1 was found to be much less active than PGE1 itself.

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

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