

Product Data Sheet

Product Name: Prostaglandin E1 ethyl ester

Cat. No.: GC18768

Chemical Properties

Cas. No. 35900-16-4

Chemical Name 11 α ,15S-dihydroxy-9-oxo-prost-13E-en-1-oic acid, ethyl ester

SMILES O=C1[C@H](CCCCCCC(OCC)=O)[C@@H](/C=C/[C@@H](O)CCCC)[C@H](O)C1

Formula C₂₂H₃₈O₅

M.Wt 382.5

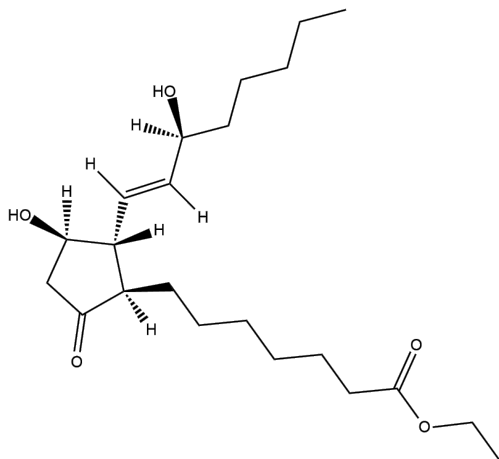
Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 0.25 mg/ml

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

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

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Prostaglandin E1 (PGE1) is the theoretical cyclooxygenase metabolite of dihomo- γ -linolenic acid. Its pharmacology includes vasodilation, hypotension, and anti-platelet activities. The IC₅₀ value of PGE1 for the inhibition of ADP-induced human platelet aggregation is 40 nM. PGE1 is used to treat male erectile dysfunction and to maintain ductus arteriosus patency in infants. PGE1 ethyl ester is an esterified form of the free acid which may be more amenable for certain applications.

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