

Product Data Sheet

Product Name: Prostaglandin E3

Cat. No.: GC40611

Chemical Properties

Cas. No. 802-31-3

Chemical Name 9-oxo-11 α ,15S-dihydroxy-prosta-5Z,13E,17Z-trien-1-oic acid

SMILES O=C1[C@H](C/C=C\CCCC(O)=O)[C@@H](/C=C/[C@@H](O)C/C=C\CC)[C@H](O)C1

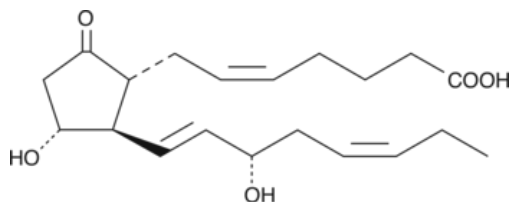
Formula C₂₀H₃₀O₅ M.Wt 350.5

Solubility DMF: >100 mg/ml ; DMSO: >100 mg/ml ; Ethanol: >100 mg/ml ; PBS (pH 7.2): >5 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 E3 (PGE3) is formed via the cyclooxygenase (COX) metabolism of eicosapentaenoic acid. [1] In human ocular tissue, it comprises 2.4% of the COX products formed. [1] When applied to the eyes of a rabbit, a 1 μ g dose of PGE3 decreases intraocular pressure from 21 mmHg to about 17 mmHg.[2]

Reference:

[1]. Kulkarni, P.S., and Srinivasan, B.D. Eicosapentaenoic acid metabolism in human and rabbit anterior uvea. Prostaglandins 31(6), 1159-1164 (1986).

[2]. Kulkarni, P.S., and Srinivasan, B.D. Prostaglandins E3 and D3 lower intraocular pressure.

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

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Investigative Ophthalmology & Visual Science 26, 1178-1182 (1985).

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