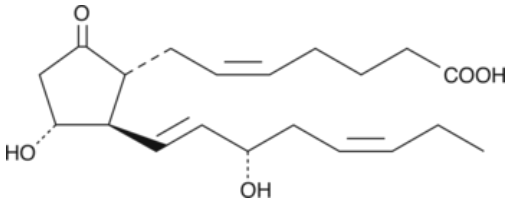
# Product Data Sheet

Product Name: Prostaglandin E3
Cat. No.: GC40611

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 802-31-3 | | |
| Chemical Name | 9-oxo-11α,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 µg 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).