

Product Data Sheet

Product Name: Prostaglandin D3

Cat. No.: GC40610

Chemical Properties

Cas. No. 71902-47-1

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

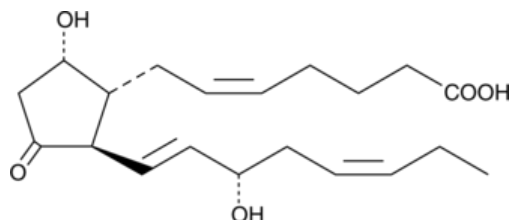
Formula C₂₀H₃₀O₅ M.Wt 350.5

Solubility DMF: >100 mg/ml (from PGD₂), DMSO: >50 mg/ml (from PGD₂), Ethanol: >75 mg/ml (from PGD₂), PBS pH 7.2: >5 mg/ml (from PGD₂)
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 D3 (PGD₃) is produced by the metabolism of EPA via the COX pathway. It is equipotent to PGD₂ in decreasing systemic blood pressure in rats and in decreasing intraocular pressure in rabbits. However, it is 3-5 times more potent than PGD₂ in the inhibition of ADP-induced human platelet aggregation.

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

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