

Product Data Sheet

Product Name: Prostaglandin D2 methyl ester

Cat. No.: GC41170

Chemical Properties

Cas. No. 49852-81-5

SMILES CCCCC(O)/C=C/[C@H]1C(=O)CC(O)C1C/C=C\CCCC(=O)OC

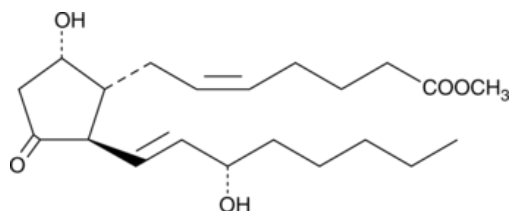
Formula C₂₁H₃₄O₅ M.Wt 366.5

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 1 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 D2 (PGD₂) is the major eicosanoid product of mast cells and is produced in large quantities by hematopoietic PGD synthase during allergic and asthmatic anaphylaxis. It causes vasodilation, flushing, hypotension, and is an inhibitor of platelet aggregation. Prostaglandin D2 methyl ester (PGD₂ methyl ester) is a more lipid-soluble, cell-permeable prodrug form of PGD₂. It binds to the human and mouse PGD₂ receptors (DP1 and CRTH2/DP2) with 5-10 fold lower affinity than PGD₂.

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

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