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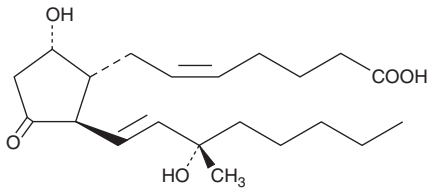
PRODUCT INFORMATION

15(S)-15-methyl Prostaglandin D_2

Item No. 12730

CAS Registry No.: 85280-90-6
Formal Name: 9α,15S-dihydroxy-11-oxo-15-methyl-prosta-5Z,13E-dien-1-oic acid
Synonym: 15(S)-15-methyl PGD_2
MF: $C_{21}H_{34}O_5$
FW: 366.5
Purity: ≥95%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that 15(S)-15-methyl prostaglandin D_2 (15(S)-15-methyl PGD_2) be stored as supplied at -20°C. It should be be stable for one year.

15(S)-15-methyl PGD_2 is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 15(S)-15-methyl PGD_2 in these solvents is approximately 50 mg/ml. 15(S)-15-methyl PGD_2 is stable for at least six months in these solvents if stored at -20°C.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 15(S)-15-methyl PGD_2 is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 15(S)-15-methyl PGD_2 in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

15(S)-15-methyl PGD_2 is a metabolically stable synthetic analog of PGD_2 (Item No. 12010). In contrast to PGD_2, 15(S)-15-methyl PGD_2 induces vasoconstriction and increases systemic blood pressure with much reduced inhibitory activity on ADP-induced platelet aggregation.[1] It also exhibits strong antifertility activity in hamsters (200-fold more potent than PGD_2).[1]

Reference

1. Bundy, G.L., Morton, D.R., Peterson, D.C., *et al.* Synthesis and platelet aggregation inhibiting activity of prostaglandin D analogues. *J. Med. Chem.* **26**, 790-799 (1983).

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