

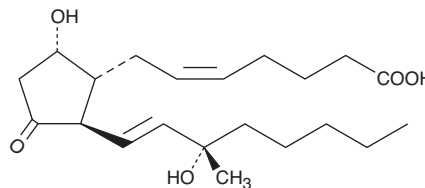
Product Information



15(S)-15-methyl Prostaglandin D₂

Catalog No. 12730

CAS Registry No.: 85280-90-6
Formal Name: 9 α ,15S-dihydroxy-11-oxo-15-methyl-prosta-5Z,13E-dien-1-oic acid
MF: C₂₁H₃₄O₅
FW: 366.5
Purity: \geq 95%
Stability: \geq 1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

15(S)-15-methyl Prostaglandin D₂ (15(S)-15-methyl PGD₂) is a metabolically stable synthetic analog of PGD₂. For long term storage, we suggest that 15(S)-15-methyl PGD₂ be stored as supplied at -20°C. It will be stable for at least one year.

15(S)-15-methyl PGD₂ 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 PGD₂ in these solvents is approximately 50 mg/ml. 15(S)-15-methyl PGD₂ 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 PGD₂ 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 PGD₂ in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

In contrast to PGD₂, 15(S)-15-methyl PGD₂ 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 PGD₂).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).

Related Products

Prostaglandin D₂ - Cat. No. 12010 • 15(R)-15-methyl Prostaglandin D₂ - Cat. No. 12720

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WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent under separate cover to the MSD supervisor at your institution.

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