

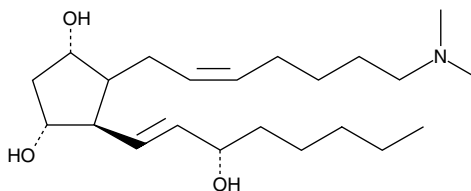
Product Information



Prostaglandin F_{2α} dimethyl amine

Item No. 16033

CAS Registry No.: 67508-09-2
Formal Name: N,N,-dimethyl-9α,11α,15S-trihydroxy-prosta-5Z,13E-dien-1-amine
Synonym: Dinoprost dimethyl amine
MF: C₂₂H₄₁NO₃
FW: 367.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that prostaglandin F_{2α} dimethyl amine (PGF_{2α} dimethyl amine) be stored as supplied at -20°C. It will be stable for at least one year.

PGF_{2α} dimethyl amine is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO or dimethyl formamide purged with an inert gas can be used. The solubility of PGF_{2α} dimethyl amine in these solvents is approximately 50 mg/ml.

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 aqueous solution of PGF_{2α} dimethyl amine is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of PGF_{2α} dimethyl amine in PBS (pH 7.2) is approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

PGF_{2α} dimethyl amine is a derivative of PGF_{2α} which was designed as a PG antagonist for *in vitro* and *in vivo* studies.¹ PGF_{2α} dimethyl amine is a weak FP receptor antagonist.¹ In gerbil colon, PGF_{2α} dimethyl amine at a dose of 3.2 μg/ml inhibits the contractile effects of PGF_{2α} (at 6 ng/ml) by 60%.¹

Reference

1. Maddox, Y.T., Ramwell, P.T., Shiner, C.S., *et al.* Amide and l-amino derivatives of F prostaglandins as prostaglandin antagonists. *Nature* **273**, 549-552 (1978).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16033

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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 *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

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