PRODUCT INFORMATION



Prostaglandin F_{2a} dimethyl amine

Item No. 16033

CAS Registry No.: 67508-09-2

1-(dimethylamino)-prosta-5Z,13E-Formal Name:

diene-9a,11a,15S-triol

Synonyms: Dinoprost dimethyl amine,

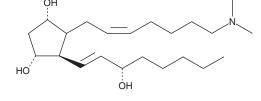
 $PGF_{2\alpha}$ dimethyl amine $C_{22}H_{41}NO_3$ 367.6

MF: FW: **Purity:** ≥98%

Supplied as: A solution in ethanol

Storage: -20°C Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Prostaglandin $F_{2\alpha}$ dimethyl amine (PGF $_{2\alpha}$ 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 methyl acetate, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of $PGF_{2\alpha}$ dimethyl amine in methyl acetate is approximately 10 mg/ml and approximately 50 mg/ml in DMSO and DMF.

 $PGF_{2\alpha}$ dimethyl amine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of PGF_{2a} dimethyl amine should be diluted with the aqueous buffer of choice. The solubility of PGF_{2a} 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.

Description

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

References

1. Maddox, Y.T., Ramwell, P.T., Shiner, C.S., et al. Amide and I-amino derivatives of F prostaglandins as prostaglandin antagonists. Nature 273(5663), 549-552 (1978).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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