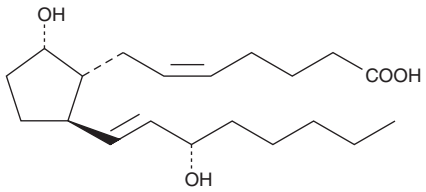
PRODUCT INFORMATION

11-deoxy Prostaglandin $F_{2\alpha}$

Item No. 16500

CAS Registry No: 37786-06-4
Formal Name: 9α,15S-dihydroxy-prosta-5Z,13E-dien-1-oic acid
MF: $C_{20}H_{34}O_4$
FW: 338.5
Purity: ≥95%
Supplied as: A solution in methyl acetate
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

11-deoxy $PGF_{2\alpha}$ 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 or dimethyl formamide purged with an inert gas can be used. The solubility of 11-deoxy $PGF_{2\alpha}$ in these solvents is approximately 100 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 solution of 11-deoxy $PGF_{2\alpha}$ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 11-deoxy $PGF_{2\alpha}$ in PBS, pH 7.2, is approximately 10 mg/ml. For greater aqueous solubility, 11-deoxy $PGF_{2\alpha}$ can be directly dissolved in 10 M Na_2CO_3 (solubility of 6 mg/ml). We recommend storing the aqueous solutions of 11-deoxy $PGF_{2\alpha}$ on ice and using within 12 hours.

Description

11-deoxy $PGF_{2\alpha}$ is a synthetic analog of $PGF_{2\alpha}$. It is a more potent agonist than $PGF_{2\alpha}$ at inducing smooth muscle contractions of rabbit aorta, dog saphenous vein, and guinea pig trachea.[1] It is approximately 20% less potent than U-46619.[1]

Reference

1. Jones, R.L., Peesapati, V., Wilson, N.H. Antagonism of the thromboxane-sensitive contractile systems of the rabbit aorta, dog saphenous vein and guinea-pig trachea. *Br. J. Pharmacol.* **76**, 423-438 (1982).

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