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- Trockeneiszuschlag
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- Expressversand

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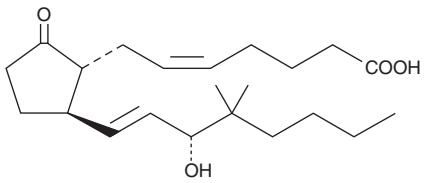
Product Information

11-deoxy-16,16-dimethyl Prostaglandin E_2

Item No. 14570

CAS Registry No.: 53658-98-3
Formal Name: 9-oxo-15R-hydroxy-16,16-dimethyl-prosta-5Z,13E-dien-1-oic acid
Synonym: 11-deoxy-16,16-dimethyl PGE_2
MF: $C_{22}H_{36}O_4$
FW: 364.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that 11-deoxy-16,16-dimethyl prostaglandin E_2 (11-deoxy-16,16-dimethyl PGE_2) be stored as supplied at -20°C. It should be stable for at least one year.

11-deoxy-16,16-dimethyl PGE_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 DMSO, dimethyl formamide or ethanol purged with an inert gas can be used. The solubility of 11-deoxy-16,16-dimethyl PGE_2 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.

Organic solvent-free solutions of 11-deoxy-16,16-dimethyl PGE_2 can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 11-deoxy-16,16-dimethyl PGE_2 in PBS (pH 7.2) is approximately 5 mg/ml. Store aqueous solutions of 11-deoxy-16,16-dimethyl PGE_2 on ice and use within 12 hours. We strongly recommend using a fresh preparation each day.

11-deoxy-16,16-dimethyl PGE_2 exhibits a variety of biological functions. It is an effective inhibitor of gastric acid secretion and ulcer formation in the rat, with ED_{50} values of 1 mg/kg and 0.021 mg/kg respectively.[1] It is 200 times more potent than $PGF_{2\alpha}$ in the contraction of human respiratory tract smooth muscle *in vitro*.[2]

References

1. Lippmann, W. Inhibition of gastric acid secretion and ulcer formation in the rat by orally-administered 11-deoxyprostaglandin analogues: 15-hydroxy-16,16-dimethyl-9-oxoprost-5,13-dienoic acids. *Prostaglandins* **7,** 231-246 (1974).
2. Karim, S.M.M., Adaikan, P.G., Kottegoda, S.R. Prostaglandins and human respiratory tract smooth muscle: Structure activity relationship. *Adv. Prostaglandin Thromboxane Res.* **7,** 969-980 (1980).

Related Product

Prostaglandin E_2 - Item No. 14010

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