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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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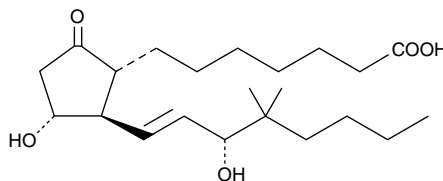
Product Information



16,16-dimethyl Prostaglandin E₁

Item No. 13750

CAS Registry No: 41692-15-3
Formal Name: 9-oxo-11 α ,15R-dihydroxy-16,16-dimethyl-prost-13E-en-1-oic acid
MF: C₂₂H₃₈O₅
FW: 382.5
Purity: \geq 98%
Stability: \geq 1 year at -80°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

16,16-dimethyl Prostaglandin E₁ (16,16-dimethyl PGE₁) is a synthetic analogue of PGE₁. For long term storage, we suggest that 16,16-dimethyl PGE₁ be stored as supplied at -80°C. It will be stable for at least one year.

16,16-dimethyl PGE₁ 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, ethanol, and dimethyl formamide purged with an inert gas can be used. The solubility of 16,16-dimethyl PGE₁ in these solvents is approximately 50 mg/ml. 16,16-dimethyl PGE₁ is stable for at least six months in these solvents if stored at -80°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 16,16-dimethyl PGE₁ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 16,16-dimethyl PGE₁ in PBS (pH 7.2) is approximately 1.6 mg/ml. Store aqueous solutions of 16,16-dimethyl PGE₁ on ice and use within 12 hours of preparation.

16,16-dimethyl PGE₁ induces human vascular smooth muscle contractions *in vitro*. It was 2, 3, and 6 times more potent than PGF_{2 α} in contracting tracheal, bronchial, and bronchiolar smooth muscle respectively.¹

Reference

1. Karim, S.M.M., Adaikan, P.G., and Kottegoda, S.R. Prostaglandins and human respiratory tract smooth muscle: Structure activity relationship. *Adv. Prostaglandin Thromboxane Res.* 7, 969-980 (1980).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13750

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

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 Safety Data Sheet, which has been sent via email to your institution.

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