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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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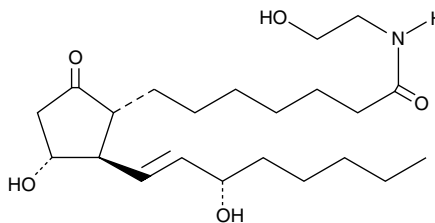
Product Information



Prostaglandin E₁ Ethanolamide

Item No. 13012

CAS Registry No.: 210976-81-1
Formal Name: N-(2-hydroxyethyl)-9-oxo-11 α ,15S-dihydroxy-prost-13E-en-1-amide
Synonym: Alprostadil Ethanolamide
MF: C₂₂H₃₉NO₅
FW: 397.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that prostaglandin E₁ ethanolamide (PGE₁ ethanolamide) be stored as supplied at -20°C. It will be stable for at least one year.

PGE₁ ethanolamide is supplied as a crystalline solid. A stock solution may be made by dissolving the PGE₁ ethanolamide in an organic solvent purged with an inert gas. PGE₁ ethanolamide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of PGE₁ ethanolamide in ethanol is approximately 50 mg/ml and approximately 30 mg/ml in DMSO and DMF.

PGE₁ ethanolamide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PGE₁ ethanolamide should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. PGE₁ ethanolamide has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. Additionally, PGE₁ ethanolamide has a solubility of approximately 5 mg/ml in isotonic saline. We do not recommend storing the aqueous solution for more than one day.

PGE₁ ethanolamide is the ethanolamine-amide analog of PGE₁. Conversion of AEA, the ethanolamide of arachidonic acid, to PGE₂ compounds has been demonstrated *in vitro*.¹ It is not established whether this conversion occurs in whole animals nor has the pharmacology of the resultant PG ethanolamides been rigorously studied.

Reference

1. Yu, M., Ives, D., and Ramesha, C.S. Synthesis of prostaglandin E₂ ethanolamide from anandamide by cyclooxygenase-2. *J. Biol. Chem.* **272**, 21181-21186 (1997).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13012

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.

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**.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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