

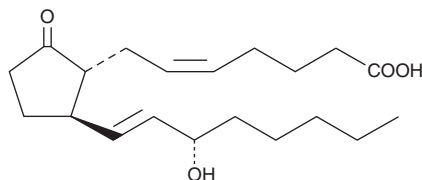
PRODUCT INFORMATION



11-deoxy Prostaglandin E₂

Item No. 14520

CAS Registry No.: 35536-53-9
Formal Name: 9-oxo-15S-hydroxy-prosta-5Z,13E-dien-1-oic acid
Synonym: 11-deoxy PGE₂
MF: C₂₀H₃₂O₄
FW: 336.5
Purity: ≥99%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 11-deoxy prostaglandin E₂ (11-deoxy PGE₂) be stored as supplied at -20°C. It should be stable for at least two years.

11-deoxy PGE₂ is supplied as a crystalline solid. A stock solution may be made by dissolving the 11-deoxy PGE₂ in an organic solvent purged with an inert gas. 11-deoxy PGE₂ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 11-deoxy PGE₂ in these solvents is approximately 100 mg/ml. 11-deoxy PGE₂ will be stable for at least six months in these solvents if stored at -20°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. Organic solvent-free aqueous solutions of 11-deoxy PGE₂ can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 11-deoxy PGE₂ in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

11-deoxy PGE₂ is a stable, synthetic analog of PGE₂ (Item No. 14010). In contrast to PGE₂ which has bronchodilation effects, 11-deoxy PGE₂ is a powerful bronchoconstrictor and contracts human respiratory tract smooth muscle with potencies ranging from 5 to 30 times higher than PGF_{2α} (Item No. 16010).¹

Reference

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

WARNING

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

SAFETY DATA

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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