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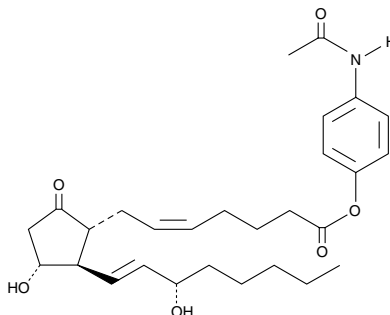
Product Information



Prostaglandin E₂ p-acetamidophenyl ester

Item No. 14053

CAS Registry No.: 57790-52-0
Formal Name: 9-oxo-11 α ,15S-dihydroxy-prosta-5Z,13E-dien-1-oic acid, (4-acetylamino)phenyl ester
MF: C₂₈H₃₉NO₆
FW: 485.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that Prostaglandin E₂ p-acetamidophenyl ester (PGE₂ p-acetamidophenyl ester) be stored as supplied at -20°C. It should be stable for at least one year.

PGE₂ p-acetamidophenyl ester is supplied as a crystalline solid. A stock solution may be made by dissolving the PGE₂ p-acetamidophenyl ester in an organic solvent. PGE₂ p-acetamidophenyl ester is soluble in organic solvents such as ethanol (40 mg/ml), DMSO (35 mg/ml), and dimethyl formamide (38 mg/ml). PGE₂ p-acetamidophenyl ester will be stable for at least six months in these solvents if stored at -20°C.

PGE₂ p-acetamidophenyl ester is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PGE₂ p-acetamidophenyl ester should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. PGE₂ p-acetamidophenyl ester has a solubility of approximately 50 µg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

PGE₂ p-acetamidophenyl ester is a crystalline derivative of PGE₂. PGE₂ is one of the primary cyclooxygenase products of arachidonic acid and one of the most widely investigated prostaglandins. Its activity influences inflammation, fertility and parturition, gastric mucosal integrity, and immune modulation.¹⁻⁴ The effects of PGE₂ are transduced by at least four distinct receptors designated EP₁, EP₂, EP₃, and EP₄.⁵ Affinity constants (K_d) of PGE₂ for these receptors range from 1-10 nM depending on the receptor subtype and tissue.

References

1. Willis, A.L. and Cornelsen, M. Repeated injection of prostaglandin E₂ in rat paws induces chronic swelling and a marked decrease in pain threshold. *Prostaglandins* **3**, 353-357 (1973).
2. Jackson, G.M., Sharp, H.T., and Varner, M.W. Cervical ripening before induction of labor: A randomized trial of prostaglandin E₂ gel *versus* low-dose oxytocin. *Am. J. Obstet. Gynecol.* **171**, 1092-1096 (1994).
3. Robert, A., Schultz, J.R., Nezamis, J.E., *et al.* Gastric antisecretory and antiulcer properties of PGE₂, 15-methyl PGE₂, and 16,16-dimethyl PGE₂. Intravenous, oral and intrajejunal administration. *Gastroenterology* **70**, 359-370 (1976).
4. Arvind, P., Papavassiliou, E.D., Tsioulias, G.J., *et al.* Prostaglandin E₂ down-regulates the expression of HLA-DR antigen in human colon adenocarcinoma cell lines. *Biochemistry* **34**, 5604-5609 (1995).
5. Coleman, R.A., Smith, W.L., and Narumiya, S. Classification of prostanoid receptors: Properties, distribution, and structure of the receptors and their subtypes. *Pharmacol. Rev.* **46**, 205-229 (1994).

Related Products

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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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