

Product Information



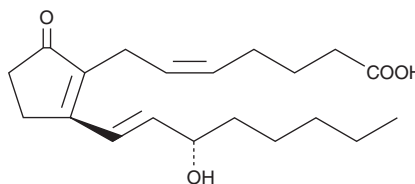
Prostaglandin B₂ Lipid Maps MS Standard

Catalog No. 10007201

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CAS Registry No.: 13367-85-6
Formal Name: 9-oxo-15S-hydroxy-prosta-5Z,8(12),13E-trien-1-oic acid
Synonym: PGB₂
MF: C₂₀H₃₀O₄
FW: 334.5
Purity: ≥99%
Stability: ≥2 years at -20°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that prostaglandin B₂ (PGB₂) be stored as supplied at -20°C. It should be stable for at least two years.

PGB₂ 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of PGB₂ in these solvents is approximately 100, 50, and 75 mg/ml, respectively.

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 PGB₂ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of PGB₂ in PBS (pH 7.2) is approximately 2.0 mg/ml. We do not recommend storing the aqueous solution for more than one day.

PGB₂ is a non-enzymatic dehydration product resulting from the treatment of PGE₂ or PGA₂ with strong base. It has weak agonist activity on TP receptors and can increase pulmonary blood pressure in the rabbit at relatively high doses (5 µg/kg).¹

Reference

1. Liu, F., Orr, J.A., Wu, J. Prostaglandin B₂-induced pulmonary hypertension is mediated by TXA₂/PGH₂ receptor stimulation. *J. Am. Physiol. Soc.* **1040**, L602-L607 (1994).

Related Products

Prostaglandin A₂ - Cat. No. 10210 • Prostaglandin B₂ - Cat. No. 11210 • 19(R)-hydroxy Prostaglandin B₂ - Cat. No. 11910 • Prostaglandin E₂ - Cat. No. 14010 • Prostaglandin H₂ - Cat. No. 17020 • Carbocyclic Thromboxane A₂ - Cat. No. 19010 • Pinane Thromboxane A₂ - Cat. No. 19020 • Prostaglandin B₂-d₄ - Cat. No. 311210 • Prostaglandin B₂ Quant-PAK - Cat. No. 10006841

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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.

MATERIAL 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 Material Safety Data Sheet, which has been sent under separate cover to the MSDS supervisor at your institution.

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