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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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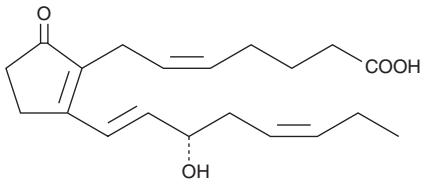
PRODUCT INFORMATION

Prostaglandin B_3

Item No. 11990

CAS Registry No.:	36614-32-1
Formal Name:	9-oxo-15S-hydroxy-prosta-5Z,8(12),13E,17Z-tetraen-1-oic acid
Synonyms:	PGB_3
MF:	$C_{20}H_{28}O_4$
FW:	332.4
Purity:	≥97%
UV/Vis.:	λ_{max}: 280 nm
Supplied as:	A solution in methyl acetate
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Prostaglandin B_3 (PGB_3) 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 can be used. To prevent oxidation of PGB_3, the solvent should be purged with an inert gas. The solubility of PGB_3 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 aqueous solution of PGB_3 is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in basic buffers. The solubility of PGB_3 in PBS (pH 7.2) is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

PGB_3 is a non-enzymatic dehydration product resulting from the treatment of PGE_3 with strong base. In a structure-activity binding study to determine the affinity of various PGs to human PPARγ, PGB_3 exhibited a K_i value greater than 1 mM.[1] In contrast, PGB_1 and PGB_2 showed significantly higher affinity for PPARγ, with K_i values of 26 and 77 µM, respectively, in the same assay.

Reference

1. Ferry, G., Bruneau, V., Beauverger, P., *et al.* Binding of prostaglandins to human PPARγ: tool assessment and new natural ligands. *Eur. J. Pharmacol.* **417**, 77-89 (2001).

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