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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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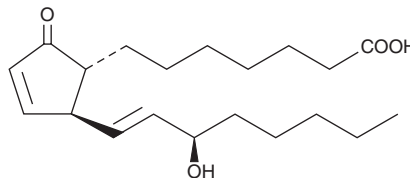
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PRODUCT INFORMATION



15-*epi* Prostaglandin A₁ Item No. 10070

CAS Registry No.: 20897-92-1
Formal Name: 9-oxo-15R-hydroxy-prosta-10,13E-dien-1-oic acid
Synonym: 15-*epi* PGA₁
MF: C₂₀H₃₂O₄
FW: 336.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate
UV/Vis.: λ_{max}: 216 nm ε: 13,000



Laboratory Procedures

15-*epi* Prostaglandin A₁ (15-*epi* PGA₁) is the 15(R) stereoisomer of PGA₁. For long term storage, we suggest that 15-*epi* PGA₁ be stored as supplied at -20°C. It should be stable for at least one year.

15-*epi* PGA₁ 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 DMSO, ethanol, and dimethyl formamide purged with an inert gas can be used. The solubility of 15-*epi* PGA₁ in these solvents is approximately 100 mg/ml.

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 15-*epi* PGA₁ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 15-*epi* PGA₁ in PBS (pH 7.2) is approximately 2.4 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

15-*epi* PGA₁ is the 15(R) stereoisomer of PGA₁. Prostaglandins of the A-series, including some with 15(R) stereochemistry, are natural products of gorgonian soft corals. PGA₁ causes renal vasodilation, increased urine sodium excretion, and lowered arterial pressure in hypertensive patients.¹ There are no published reports on the biological activity of 15-*epi* PGA₁ at this time.

Reference

1. Krakoff, L.R., Vlachakis, N., Mendlowitz, M., *et al.* Differential effect of prostaglandin A₁ in hypertensive patients with low, normal and high renin. *Clin. Sci. Mol. Med.* 48, 311s-313s (1975).

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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