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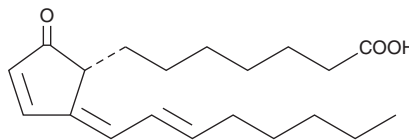
PRODUCT INFORMATION



15-deoxy- $\Delta^{12,14}$ -Prostaglandin A₁

Item No. 10065

CAS Registry No.: 573951-20-9
Formal Name: 9-oxo-prosta-10,12Z,14E-trien-1-oic acid
Synonym: 15-deoxy- $\Delta^{12,14}$ -PGA₁
MF: C₂₀H₃₀O₃
FW: 318.5
Purity: ≥95%
Stability: ≥1 year at -80°C
Supplied as: A solution in methyl acetate
UV/Vis.: λ_{max}: 324 nm



Laboratory Procedures

For long term storage, we suggest that 15-deoxy- $\Delta^{12,14}$ -prostaglandin A₁ (15-deoxy- $\Delta^{12,14}$ -PGA₁) be stored as supplied at -80°C. It should be stable for at least one year.

15-deoxy- $\Delta^{12,14}$ -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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 15-deoxy- $\Delta^{12,14}$ -PGA₁ in these solvents is approximately 50 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. The solubility of 15-deoxy- $\Delta^{12,14}$ -PGA₁ in PBS (pH 7.2) is approximately 2.4 mg/ml. Store aqueous solutions of 15-deoxy- $\Delta^{12,14}$ -PGA₁ ice and use within 12 hours of preparation.

Description

15-deoxy- $\Delta^{12,14}$ -PGA₁ is a synthetic PGA₁ analog. It shares common structural features with 15-deoxy- $\Delta^{12,14}$ -PGJ₂, which is a ligand for PPAR γ .¹ Antimitotic and antitumor activity have been reported for a similar analog, but there are no published reports on the biological activity of 15-deoxy- $\Delta^{12,14}$ -PGA₁ at this time.²

References

1. Kliewer, S.A., Lenhard, J.M., Willson, T.M., *et al.* A prostaglandin J₂ metabolite binds peroxisome proliferator-activated receptor γ and promotes adipocyte differentiation. *Cell* **83**, 813-819 (1995).
2. Kato, T., Fukushima, M., Kurozumi, S., *et al.* Antitumor activity of Δ^7 -prostaglandin A₁ and Δ^{12} -prostaglandin J₂ *in vitro* and *in vivo*. *Cancer Res.* **46**, 3538-3542 (1986).

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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