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- Trockeneiszuschlag
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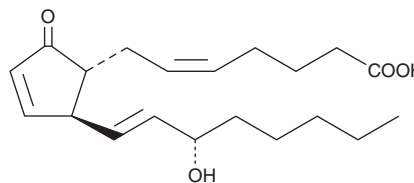
PRODUCT INFORMATION



Prostaglandin A₂

Item No. 10210

CAS Registry No.: 13345-50-1
Formal Name: 9-oxo-15-hydroxy-prosta-5Z,10,13E-trien-1-oic acid
Synonyms: Medullin, PGA₂
MF: C₂₀H₃₀O₄
FW: 334.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate
UV/Vis.: λ_{max}: 216 nm



Laboratory Procedures

For long term storage, we suggest that prostaglandin A₂ (PGA₂) be stored as supplied at -20°C. It should be stable for at least one year.

PGA₂ 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 PGA₂ in these solvents is approximately 50, 100, 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 PGA₂ is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of PGA₂ in PBS (pH 7.2) is approximately 2.4 mg/ml. Avoid adding PGA₂ to basic solutions (pH >7.4), since base treatment will degrade the PGA₂ to PGB₂. We do not recommend storing the aqueous solution for more than one day.

Description

PGA₂ is a naturally occurring prostaglandin in gorgonian corals where it may function in self defense. It is generally not present in mammals. PGA₂ has low biological potency in most bioassays, but it does show some anti-viral/anti-tumor activity.¹ At a 25 μM concentration, PGA₂ blocks the cell cycle progression of NIH 3T3 cells at the G₁ and G₂/M phase.² It has also been shown to act as a vasodilator with natriuretic properties.³

References

1. Fukushima, M., Kato, T., Narumiya, S., *et al.* Prostaglandin A and J: Antitumor and antiviral prostaglandins. *Adv. Prostaglandin Thromboxane Leukotriene Res.* **19**, 415-418 (1989).
2. Hitomi, M., Shu, J., Strom, D., *et al.* Prostaglandin A₂ blocks the activation of G₁ phase cyclin-dependant kinase without altering mitogen-activated protein kinase stimulation. *J. Biol. Chem.* **271**, 9376-9383 (1996).
3. Frolich, J.C., Sweetman, B.J., Carr, K., *et al.* Assessment of the levels of PGA₂ in human plasma by gas chromatography-mass spectrometry. *Prostaglandins* **10**, 185-195 (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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