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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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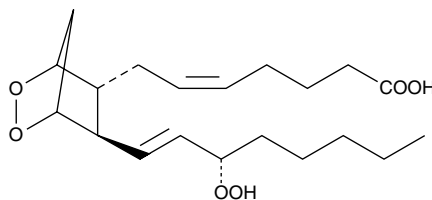
Product Information



Prostaglandin G₂

Item No. 17010

CAS Registry No.: 51982-36-6
Formal Name: 9 α ,11 α -epidioxy-15S-hydroperoxy-prosta-5Z,13E-dien-1-oic acid
Synonym: PGG₂
MF: C₂₀H₃₂O₆
FW: 368.5
Purity: \geq 95%
Stability: \geq 6 months at -80°C
Supplied as: A solution in acetone



Laboratory Procedures

For long term storage, we suggest that prostaglandin G₂ (PGG₂) be stored as supplied at -80°C. It should be stable for at least six months.

PGG₂ is supplied as a solution in acetone. To change the solvent, first place the vial of PGG₂ on ice. Next, evaporate the acetone under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and ethanol purged with an inert gas can be used. The solubility of PGG₂ 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 PGG₂ is needed, it can be prepared by evaporating the acetone and directly dissolving the neat oil in aqueous buffers. The solubility of PGG₂ in PBS (pH 7.2) is approximately 2 mg/ml. Store aqueous solutions of PGG₂ on ice and use immediately as the half-life of PGG₂ in aqueous solutions is approximately 10 minutes.

PGG₂ is a metabolite of arachidonic acid by the cyclooxygenase activity of PGH synthase. Under normal conditions, PGG₂ is quickly metabolized by the peroxidase activity of PGH synthase to PGH₂, which serves as the key precursor to PGs and thromboxanes.¹⁻²

References

1. Hamberg, M., Svensson, J., and Samuelsson, B. Prostaglandin endoperoxides. A new concept concerning the mode of action and release of prostaglandins. *Proc. Natl. Acad. Sci. USA* **71**, 3824-3828 (1974).
2. Kulmacz, R.J. Prostaglandin G₂ levels during reaction of prostaglandin H synthase with arachidonic acid. *Prostaglandins* **34**, 225-240 (1987).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17010

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 via email to your institution.

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