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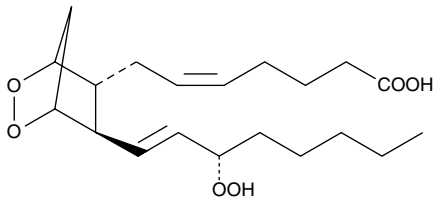
Product Information

Prostaglandin G_2

Item No. 17010

CAS Registry No.: 51982-36-6
Formal Name: 9α,11α-epidioxy-15S-hydroperoxy-prosta-5Z,13E-dien-1-oic acid
Synonym: PGG_2
MF: $C_{20}H_{32}O_6$
FW: 368.5
Purity: ≥95%
Stability: ≥6 months at -80°C
Supplied as: A solution in acetone



Laboratory Procedures

For long term storage, we suggest that prostaglandin G_2 (PGG_2) be stored as supplied at -80°C. It should be stable for at least six months.

PGG_2 is supplied as a solution in acetone. To change the solvent, first place the vial of PGG_2 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 PGG_2 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 PGG_2 is needed, it can be prepared by evaporating the acetone and directly dissolving the neat oil in aqueous buffers. The solubility of PGG_2 in PBS (pH 7.2) is approximately 2 mg/ml. Store aqueous solutions of PGG_2 on ice and use immediately as the half-life of PGG_2 in aqueous solutions is approximately 10 minutes.

PGG_2 is a metabolite of arachidonic acid by the cyclooxygenase activity of PGH synthase. Under normal conditions, PGG_2 is quickly metabolized by the peroxidase activity of PGH synthase to PGH_2, 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 G_2 levels during reaction of prostaglandin H synthase with arachidonic acid. *Prostaglandins* **34**, 225-240 (1987).

Related Products

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