

Produktinformation



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Laborgeräte & Service

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Product Information



8-iso-15-keto Prostaglandin E₂

Item No. 14390

CAS Registry No.: 914804-63-0

 $9,\!15\text{-}dioxo\text{-}11\alpha\text{-}hydroxy\text{-}(8\beta)\text{-}prosta-$ Formal Name:

5Z,13E-1-oic acid

8-epi-15-keto PGE₂, 8-iso-15-keto PGE₂ Synonyms:

MF: $C_{20}H_{30}O_5$ FW: 350.5 **Purity:** ≥98%

Stability: ≥1 year at -20°C

Supplied as: A solution in methyl acetate

Laboratory Procedures

For long term storage, we suggest that 8-iso-15-keto prostaglandin E2 (8-iso-15-keto PGE2) be stored as supplied at -20°C. It will be stable for at least one year.

8-iso-15-keto PGE2 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 8-iso-15-keto PGE, in these solvents is approximately 20 mg/ml. 8-iso-15-keto PGE2 is stable for at least six months in these solvents if stored at -20°C.

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 8-iso-15-keto PGE2 is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 8-iso-15-keto PGE, in PBS (pH 7.2) is approximately 1.4 mg/ml. We do not recommend storing the aqueous solution for more than one day.

8-iso-15-keto PGE2 is an isoprostane, one member of a large family of biomarkers produced by the free radical peroxidative degradation of membrane lipids. 1 8-iso-15-keto PGE2 is the theoretical first metabolite of 8-iso PGE₂ via the 15-hydroxy PGDH pathway. While a number of potent biological activities have been attributed to 8-iso PGE₂,² there are no published reports at this time regarding its metabolism.

- 1. Morrow, J.D., Hill, K.E., Burk, R.F., et al. A series of prostaglandin F,-like compounds are produced in vivo in humans by a non-cyclooxygenase, free radical-catalyzed mechanism. Proc. Natl. Acad. Sci. USA 87, 9383-9387 (1990).
- 2. Longmire, A.W., Roberts, L.J., and Morrow, J.D. Actions of the E₂-isoprostane, 8-iso-PGE₂, on the platelet thromboxane/endoperoxide receptor in humans and rats: Additional evidence for the existence of a unique isoprostane receptor. Prostaglandins 48, 247-256 (1994).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14390

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

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 Safety Data Sheet, which has been sent via email to your institution.

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