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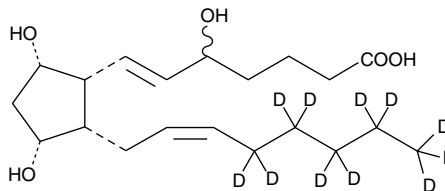
Product Information



8,12-*iso*-iPF_{2α}-VI-d₁₁

Item No. 10006878

Formal Name: 5S,5R,9α,11α-trihydroxy-(12α)-prosta-6E,14Z-dien-1-oic-16,16,17,17,18,18,19,19,20,20,20-d₁₁ acid
Synonym: 8,12-*epi*-iPF_{2α}-VI-d₁₁
MF: C₂₀H₂₃D₁₁O₅
FW: 365.6
Chemical Purity: ≥95%
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₁₁); ≤1% d₀
Stability: ≥1 year at -80°C
Supplied as: A solution in acetonitrile



Laboratory Procedures

8,12-*iso*-isoprostane-F_{2α}-VI-d₁₁ (8,12-*iso*-iPF_{2α}-VI-d₁₁) contains eleven deuterium atoms at the 16, 16', 17, 17', 18, 18', 19, 19', 20, 20, 20 positions. It is intended for use as an internal standard for the quantification of 8,12-*iso*-iPF_{2α}-VI by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that 8,12-*iso*-iPF_{2α}-VI-d₁₁ be stored as supplied at -80°C. It should be stable for at least one year.

8,12-*iso*-iPF_{2α}-VI-d₁₁ is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the acetonitrile 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 8,12-*iso*-iPF_{2α}-VI-d₁₁ in these solvents is approximately 100 mg/ml.

8,12-*iso*-iPF_{2α}-VI-d₁₁ is used as an internal standard for the quantification of 8,12-*iso*-iPF_{2α}-VI by stable isotope dilution MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Isoprostanes are non-enzymatic, non-cyclooxygenase prostanoid products of peroxidative damage to membrane lipids.¹ Among the many isoprostane isomers, 8,12-*iso*-iPF_{2α}-VI has been demonstrated to be one of the predominant isomers formed and is also present in urine as one of the major isoprostane products.² 8,12-*iso*-iPF_{2α}-VI-d₁₁ is a deuterated internal standard for use in isoprostane quantitation by MS modalities. The compound is diastereomeric at C-5, but is otherwise an optically active, single enantiomer.

References

1. Diaz, M.N., Frei, B., Vita, J.A., *et al.* Antioxidants and atherosclerotic heart disease. *N. Engl. J. Med.* **337**, 408-416 (1997).
2. Lawson, J.A., Li, H., Rokach, J., *et al.* Identification of two major F₂ isoprostanes, 8,12-*iso*- and 5-*epi*-8,12-*iso*-isoprostane F_{2α}-VI, in human urine. *J. Biol. Chem.* **273**, 29295-29301 (1998).

Related Products

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