

Product Data Sheet

Product Name: 8,12-iso-iPF₂α-VI-d₁₁

Cat. No.: GC46743

Chemical Properties

Cas. No. 1616977-85-5

SMILES OC(CCCC(O)=O)/C=C/[C@@H]1[C@H](C/C=C\C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])[C@H](O)C[C@@H]1O

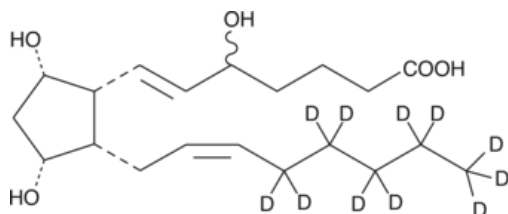
Formula C₂₀H₂₃D₁₁O₅ M.Wt 365.6

Solubility DMF: >100mg/ml (PGF₂ α), DMSO: >100mg/ml (PGF₂ α), Ethanol: >100mg/ml (PGF₂ α), PBS pH 7.2: 3 mg/ml (PGF₂ α)
Storage Store at -80°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

8,12-iso-isoprostane F₂α-VI-d₁₁ (8,12-iso-iPF₂α-VI-d₁₁) contains 11 deuterium atoms at the 16, 16', 17, 17', 18, 18', 19, 19', 20, 20, and 20 positions. It is intended for use as an internal standard for the quantification of 8,12-iso-iPF₂α-VI by GC- or LC-mass spectrometry. The relative abundance of deuterium atoms incorporated into each molecule has not been determined. certifies that less than 1% of the product has no deuterium incorporation (<1% d₀). Isoprostanes are non-enzymatic, non-cyclooxygenase prostanoid products of peroxidative damage to membrane lipids.¹ Among the many isoprostane isomers, 8,12-iso-iPF₂α-VI has been demonstrated to be one of the predominant

Caution: Product has not been fully validated for medical applications. For research use only.

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isomers formed and is also present in urine as one of the major isoprostane products.² 8,12-*iso*-iPF₂ α -VI-d₁₁ is a deuterated internal standard for use in isoprostane quantitation by mass spec modalities. The compound is diastereomeric at C-5, but is otherwise an optically active, single enantiomer.

1. Diaz, M.N., Frei, B., Vita, J.A., et al. Antioxidants and atherosclerotic heart disease. *New England Journal of Medicine* 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 F₂ α -VI, in human urine. *The Journal of Biological Chemistry* 273:29295-29301 (1998)

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