

Product Data Sheet

Product Name: 8-iso Prostaglandin F1 α -d9

Cat. No.: GC46746

Chemical Properties

Cas. No. 26771-96-0

SMILES O[C@@H]1[C@@H](CCCCCCC(O)=O)[C@@H](/C=C/[C@@H](O)CC([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])[2H])[C@H](O)C1

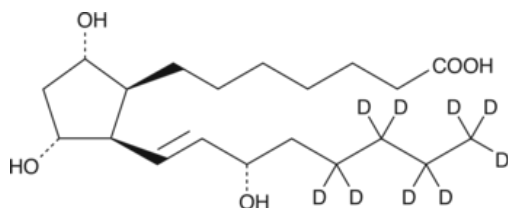
Formula C₂₀H₂₇D₉O₅ M.Wt 365.6

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 1 mg/ml
Storage Store at -20°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-iso Prostaglandin F₁ α -d₉ (8-iso PGF₁ α -d₉) contains nine deuterium atoms at the 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-iso PGF₁ α by GC- or LC-mass spectrometry. 8-iso PGF₁ α is an isoprostane that was first identified in human semen.¹ It is a member of the isoprostane family, which are eicosanoids of non-cyclooxygenase origin. 8-iso PGF₁ α is present along with its 19-hydroxy congener at 5-10 μ g/ml of seminal plasma.²

1. Svanborg, K., Bygdeman, M., and Eneroth, P. The F and 19-hydroxy F prostaglandins and their 8 β -isomers in human seminal plasma: Data on chromatography and mass spectrometry. *Biomedical*

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

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Mass Spectrometry 10495-498(1983) 2.Taylor, P.L.The 8-isoprostaglandins: Evidence for eight compounds in human semen Prostaglandins 17259-267(1979)

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