

Product Data Sheet

Product Name: PGDM-d4

Cat. No.: GC47942

Chemical Properties

Cas. No. N/A

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

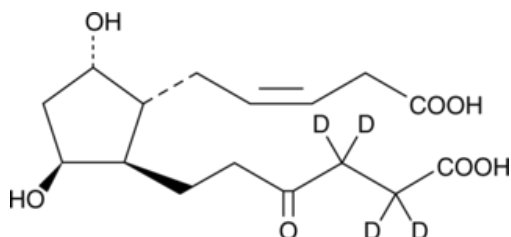
Formula C₁₆H₂₀D₄O₇ M.Wt 332.4

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 1 mg/ml
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

Prostaglandin DM (PGDM)-d₄ contains four deuterium atoms at the 18, 18', 19 and 19' positions. It is intended for use as an internal standard for the quantification of PGDM by GC- or LC-mass spectrometry. PGD₂ plays a pharmacological role in allergic and asthmatic anaphylaxis, normal physiological sleep and lowering of body temperature, as well as inhibits platelet aggregation and relaxes vascular smooth muscle.¹ PGDM is a major urinary metabolite of PGD₂ with a unique lower sidechain that readily undergoes reversible cyclization.² It is used as a biomarker to assess endogenous production of PGD₂.

1. Giles, H., and Leff, P. The biology and pharmacology of PGD₂ Prostaglandins 35(2)277-300(1988)

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

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2.Morrow, J.D., Prakash, C., Awad, J.A., et al.Quantification of the major urinary metabolite of prostaglandin D2 by a stable isotope dilution mass spectrometric assayAnal. Biochem.193(1)142-148(1991)

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