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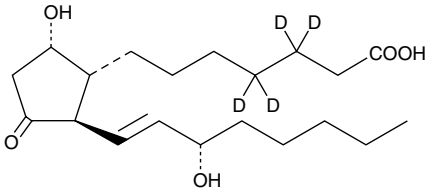
Product Information

Prostaglandin D_1-d_4

Item No. 312000

Formal Name:	9α,15S-dihydroxy-11-oxo-prost-13E-en-1-oic-3,3,4,4-d_4 acid
MF:	$C_{20}H_{30}D_4O_5$
FW:	358.5
Chemical Purity:	≥99%
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
Stability:	≥1 year at -20°C
Supplied as:	A solution in methyl acetate



Laboratory Procedures

Prostaglandin D_1-d_4 (PGD_1-d_4) contains four deuterium atoms at the 3, 3', 4, and 4' positions. It is intended for use as an internal standard for the quantification of PGD_1 by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that PGD_1-d_4 be stored as supplied at -20°C. It should be stable for at least one year.

PGD_1-d_4 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 PGD_1-d_4 in these solvents is approximately 50 mg/ml.

PGD_1-d_4 is used as an internal standard for the quantification of PGD_1 by stable isotope dilution MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the weight indicated on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard PGD_1 by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

PGD_1 is the theoretical D-series metabolite of dihomo-γ-linolenic acid (DGLA), but to date it has not been isolated as a natural product. It is an inhibitor of ADP-induced platelet aggregation in humans with an IC_{50} value of 320 ng/ml, which is about 10-fold less potent than PGD_2.[1]

Reference

1. Bundy, G.L., Morton, D.R., Peterson, D.C., *et al.* Synthesis and platelet aggregation inhibiting activity of prostaglandin D analogues. *J. Med. Chem.* **26**, 790-799 (1983).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/312000

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