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- Trockeneiszuschlag
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- Expressversand

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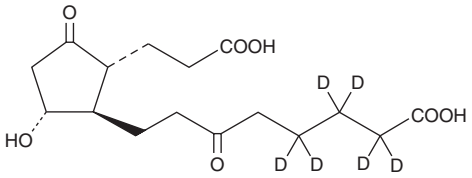
PRODUCT INFORMATION

tetranor-PGEM-d_6

Item No. 314840

CAS Registry No.:	1240398-16-6
Formal Name:	9,15-dioxo-11α-hydroxy-13,14-dihydro-2,3,4,5-tetranor-prostan-13,13,14,14,15,15-d_6-1,20-dioic acid
MF:	$C_{16}H_{18}O_7D_6$
FW:	334.4
Chemical Purity:	≥98% tetranor-PGEM
Deuterium Incorporation:	≥99% deuterated forms (may contain d_4-d_8); ≤1% d_0
Stability:	≥6 months at -80°C
Supplied as:	A solution in methyl acetate



Laboratory Procedures

tetranor-Prostaglandin E metabolite-d_6 (tetranor-PGEM-d_6) contains six deuterium atoms at the 13, 13, 14, 14, 15, and 15 positions. It is intended for use as an internal standard for the quantification of tetranor-PGEM by GC- or LC-mass spectrometry. For long term storage, we suggest that tetranor-PGEM-d_6 be stored as supplied at -80°C.

tetranor-PGEM-d_6 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 DMSO and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of tetranor PGEM-d_6 in these solvents is approximately 50 mg/ml. tetranor-PGEM-d_6 is not stable in DMSO and DMF; use the solution immediately.

tetranor-PGEM-d_6 is used as an internal standard for the quantification of tetranor-PGEM by stable isotope dilution mass spectrometry. 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 by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Description

tetranor-PGEM is the major urinary metabolite of PGE_1 and PGE_2. It is used as a urinary marker of PGE_2 biosynthesis, and to monitor metabolism after infusion or injection of PGE_1 as a pharmaceutical.[1,2] Normal healthy males excrete 16-30 µg of tetranor-PGEM over a 24-hour period. Females excrete less by about a factor of three. Following oral administration (4 x 50 mg/24 hours) of the COX inhibitor, indomethacin, urinary levels of tetranor-PGEM decrease by 75-98% indicating the almost complete loss of PGE_2 biosynthesis.[1]

References

1. Hamberg, M. Inhibition of prostaglandin synthesis in man. *Biochem. Biophys. Res. Commun.* **49**, 720-726 (1972).
2. Honda, H., Fukawa, K., and Sawabe, T. Influence of adjuvant arthritis on main urinary metabolites of prostaglandin F and E rats. *Prostaglandins* **19**, 259-269 (1980).

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