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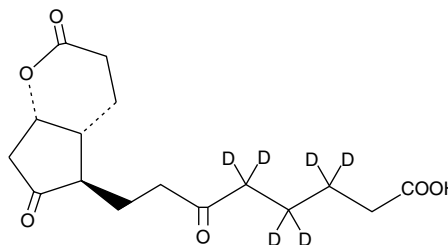
Product Information



tetranor-PGDM lactone-d₆

Item No. 11213

Formal Name: 5 α -hydroxy-7,11-dioxo-2,3,4,5-tetranor-prostan-1,14-dioic acid-16,16',17,17',18,18'-d₆
Synonym: tetranor-Prostaglandin D Metabolite lactone-d₆
MF: C₁₆H₁₆D₆O₆
FW: 316.4
Chemical Purity: \geq 90% tetranor-PGDM lactone
Deuterium Incorporation: \geq 99% deuterated forms (d₁-d₆); \leq 1% d₀
Stability: \geq 6 months at -80°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

tetranor-PGDM lactone-d₆ contains six deuterium atoms at the 16, 16', 17, 17', 18 and 18' positions. It is intended for use as an internal standard for the quantification of tetranor-PGDM lactone by GC- or LC-mass spectrometry (MS). For long term storage, we suggest that tetranor-PGDM lactone-d₆ be stored as supplied at -80°C. It should be stable for at least six months.

tetranor-PGDM lactone-d₆ 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 tetranor-PGDM lactone-d₆ in these solvents is approximately 50 mg/ml.

tetranor-PGDM lactone-d₆ is used as an internal standard for the quantification of tetranor-PGDM lactone by stable isotope dilution MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown 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).

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 tetranor-PGDM is an abundant urinary metabolite of PGD₂ that is detectable both in human and mouse and, as such, is used as a biomarker of PGD₂ biosynthesis.² tetranor-PGDM lactone is a closed form of tetranor-PGDM. The formation of tetranor-PGDM lactone in biological samples has not been evaluated.

References

- Giles, H. and Leff, P. The biology and pharmacology of PGD₂. *Prostaglandins* **35**, 277-300 (1988).
- Song, W.-L., Wang, M., Ricciotti, E., *et al.* Tetranor PGDM, an abundant urinary metabolite reflects biosynthesis of prostaglandin D₂ in mice and humans. *J. Biol. Chem.* **283**(2), 1179-1188 (2008).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11213

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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