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Product Information



tetranor-PGDM lactone

Item No. 13564

Formal Name: 8-((4aR,5R,7aS)-2,6-dioxooctahydrocyclopenta[b]pyran-5-yl)-6-oxooctanoic acid

Synonym: tetranor-Prostaglandin D Metabolite lactone

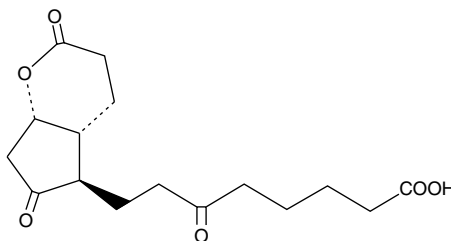
MF: C₁₆H₂₂O₆

FW: 310.3

Purity: ≥90%

Stability: ≥6 months at -20°C

Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that tetranor-Prostaglandin D Metabolite lactone (tetranor-PGDM lactone) be stored as supplied at -20°C. It should be stable for at least one year.

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

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of tetranor-PGDM lactone is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of tetranor-PGDM lactone in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Prostaglandin D₂ (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

1. Giles, H. and Leff, P. The biology and pharmacology of PGD₂. *Prostaglandins* **35**, 277-300 (1988).
2. 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/13564

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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