

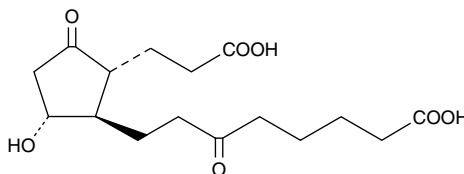
Product Information



tetranor-PGEM Lipid Maps MS Standard

Item No. 10007216

CAS Registry No.: 24769-56-0
Formal Name: 9,15-dioxo-11 α -hydroxy-13,14-dihydro-2,3,4,5-tetranor-prostan-1,20-dioic acid
Synonym: tetranor-Prostaglandin E Metabolite
MF: C₁₆H₂₄O₇
FW: 328.4
Purity: ≥98%
Stability: ≥6 months at -80°C
Supplied as: A solution in methyl acetate



Laboratory Procedures

For long term storage, we suggest that tetranor-prostaglandin E metabolite (tetranor-PGEM) be stored as supplied at -80°C. It should be stable for at least six months.

tetranor-PGEM 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 purged with an inert gas can be used. The solubility of tetranor-PGEM 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-PGEM is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of tetranor-PGEM in PBS (pH 7.2) is approximately 1 mg/ml. Store aqueous solutions of tetranor-PGEM on ice and use within 12 hours of preparation. We recommend making a fresh preparation each day.

tetranor-PGEM is the major urinary metabolite of PGE₁ and PGE₂, and is used as a urinary marker of PGE₂ biosynthesis.^{1,2} About 15% of an infused dose of PGE₂ appears as this metabolite in the urine of humans. Normal healthy males excrete 7-40 µg of tetranor-PGEM over a 24-hour period.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).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10007216

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

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 Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com