

Product Data Sheet

Product Name: tetranor-PGEM-d6

Cat. No.: GC48157

Chemical Properties

Cas. No. 1240398-16-6

SMILES O=C1[C@H](CCC(O)=O)[C@@H](CCC(CC([2H])([2H])C([2H])([2H])C([2H])([2H])C(O)=O)=O)[C@H](O)C1

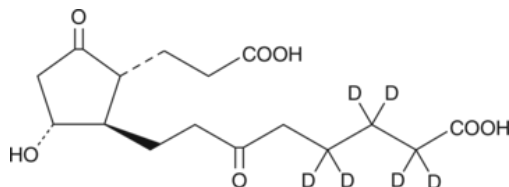
Formula C₁₆H₁₈D₆O₇ M.Wt 334.4

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: Not Stable, PBS (pH 7.2): 1 mg/ml Storage Store at -80°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Tetranor prostaglandin E metabolite-d₆ (tetranor-PGEM-d₆) 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. Tetranor PGEM-d₆ is the major urinary metabolite of PGE₁ and PGE₂. It is used as a urinary marker of PGE₂ biosynthesis, and to monitor metabolism after infusion or injection of PGE₁ 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 PGE₂ biosynthesis.¹

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

1.Hamberg, M.Inhibition of prostaglandin synthesis in manBiochemical and Biophysical Research Communications49720-726(1972) 2.Honda, H., Fukawa, K., and Sawabe, T.Influence of adjuvant arthritis on main urinary metabolites of prostaglandin F and E ratsProstaglandins19259-269(1980)

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA