

Product Data Sheet

Product Name: tetranor-PGAM

Cat. No.: GC41568

Chemical Properties

Cas. No. 52510-53-9

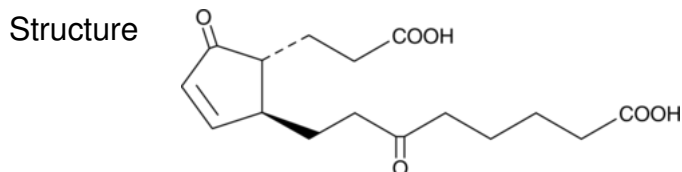
SMILES O=C1[C@H](CCC(O)=O)[C@@H](CCC(CCCCC(O)=O)=O)C=C1

Formula C₁₆H₂₂O₆ M.Wt 310.3

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 1 mg/ml
Storage Store at -20°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.



Background

Prostaglandin E₂ (PGE₂), one of the most widely investigated PGs, can be used as a biomarker of inflammation, disease state, or therapeutic effectiveness. However due to its rapid metabolism, direct measurement of PGE₂ in biological samples is difficult. The major urinary metabolite of PGE₂, tetranor-PGEM, serves as an indirect marker of PGE₂ biosynthesis. Though like PGE₂, tetranor-PGEM is also chemically unstable. tetranor-PGAM is a dehydration product of tetranor-PGEM and can be measured as a surrogate for tetranor-PGEM levels in urine.

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

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