

Product Data Sheet

Product Name: 13,14-dihydro-16,16-difluoro Prostaglandin E1

Cat. No.: GC41905

Chemical Properties

Cas. No. 475992-30-4

SMILES O=C1[C@H](CCCCCCC(O)=O)[C@@H](CC[C@@H](O)C(F)(F)CCCC)[C@H](O)C1

Formula C₂₀H₃₄F₂O₅

M.Wt 392.5

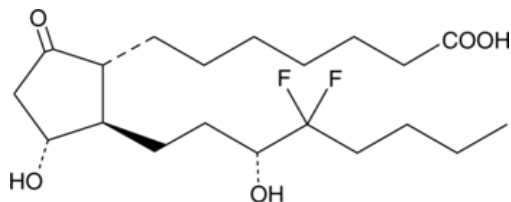
Solubility DMF: 10 mg/ml, DMSO: 5 mg/ml, Ethanol: 10 mg/ml, Ethanol: PBS (pH 7.2) (1:1): 0.5 mg/ml

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.

Structure



Background

Prostaglandin E1 (PGE1) is produced by the metabolism of dihomo- γ -linolenic acid (DGLA) by the cyclooxygenase pathway. PGE1 inhibits platelet aggregation (IC₅₀ = 40 nM) and increases vasodilation. 13,14-dihydro-16,16-difluoro PGE1 is an analog of PGE1. 13,14-dihydro PGE1 is a biologically active metabolite of PGE1, inhibiting platelet aggregation with comparable potency to the parent compound. The addition of two electron-withdrawing fluorine atoms, which should stabilize the molecule against hydrolytic cleavage, may be expected to delay degradation in vivo.

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