
Product Data Sheet

Product Name: 16,16-dimethyl Prostaglandin A1

Cat. No.: GC18778

Chemical Properties

Cas. No. 41692-24-4

Chemical Name 9-oxo-15R-hydroxy-16,16-dimethyl-prosta-10,13E-dien-1-oic acid

SMILES CCCCC(C)(C)C(O)\C=C[C@H]1C=CC(=O)C1CCCCCCC(=O)OFormula $C_{22}H_{36}O_4$ M.Wt 364.5Solubility DMF: >75 mg/ml (from PGA1), DMSO: >50 mg/ml (from
PGA1), Ethanol: >100 mg/ml (from PGA1), PBS pH 7.2: >2.4 mg/ml (from PGA1) Store
Storage at -20°CGeneral 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**

16,16-dimethyl PGA1 is a metabolism resistant analog of PGA1. In vitro, it inhibits the viral replication in both HSV and HIV-1 infection systems at concentrations that do not adversely alter cellular DNA synthesis. The ID50 for HSV-1 strains in Vero cells and human foreskin fibroblasts are 3.8-5.6 ug/ml and 4.6-7.3 ug/ml, respectively. The ID50 for T cells acutely infected with HIV-1 is 2.5 ug/ml.

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

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