

Product Data Sheet

Product Name: 8-iso Prostaglandin E2

Cat. No.: GC41425

Chemical Properties

Cas. No. 27415-25-4

SMILES O[C@H]1[C@H](/C=C/[C@@H](O)CCCC)[C@H](C/C=C\CCCC(O)=O)C(C1)=O

Formula C20H32O5

M.Wt 352.5

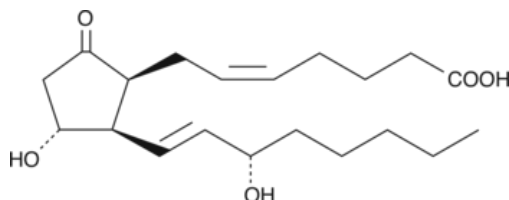
Solubility DMF: >100 mg/ml (from
PGE2), DMSO: >100 mg/ml (from
PGE2), Ethanol: >100 mg/ml (from
PGE2), PBS pH 7.2: >5 mg/ml (from
PGE2)

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

8-iso PGE2 is one of several isoprostanes produced from arachidonic acid during lipid peroxidation. It is a potent renal vasoconstrictor in the rat. 8-iso PGE2 inhibits U-46619 or I-BOP-induced platelet aggregation with IC50 values of 0.5 and 5 µM, respectively. When infused into the renal artery of the rat at a concentration of 4 µg/kg/min, 8-iso PGE2 decreases the GFR and renal plasma flow by 80% without affecting blood pressure.

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

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