
Product Data Sheet

Product Name: 8-iso Prostaglandin A2

Cat. No.: GC18781

Chemical Properties

Cas. No. 474391-66-7

Chemical Name 9-oxo-15S-hydroxy-(8 β)-prosta-5Z,10,13E-trien-1-oic acidSMILES O=C1[C@@H](C/C=C\CCCC(O)=O)[C@@H](/C=C/[C@@H](O)CCCC)C=C1Formula C₂₀H₃₀O₄ M.Wt 334.5Solubility DMF: >75 mg/mL (From PGA1), DMSO: >50 mg/mL (From Store
PGA1), Ethanol: >100 mg/mL (From PGA1), PBS pH 7.2: >2.4 mg/mL (From PGA1) 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**

Isoprostanes are prostaglandin (PG)-like compounds produced in vivo by free radical-catalyzed peroxidation of arachidonoyl-containing lipids. 8-iso PGA2 is one of several isoprostanes produced from peroxidation of arachidonic acid esterified in phospholipids. 8-iso PGA2 is the dehydration product of 8-iso PGE2, a potent renal vasoconstrictor. Evidence for the in vivo production of 8-iso PGA2 has been shown in rat liver under conditions of oxidative stress. There are no published studies of the pharmacological properties of 8-iso PGA2.

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

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