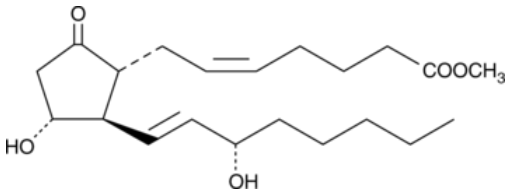
Product Data Sheet

Product Name: Prostaglandin E2 methyl ester
Cat. No.: GC41171

Chemical Properties

Cas. No.	31753-17-0		
SMILES	O=C1[C@H](C/C=C\CCCC(OC)=O)[C@@H](/C=C/[C@@H](O)CCCCC)[C@H](O)C1		
Formula	C21H34O5	M.Wt	366.5
Solubility	DMF: >25 mg/ml,DMSO: >30 mg/ml,Ethanol: >50 mg/ml,PBS pH 7.2: >150 µ g/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 E2 methyl ester (PGE2 methyl ester) is an analog of PGE2 with enhanced lipid solubility. PGE2 is one of the primary cyclooxygenase products of arachidonic acid and one of the most widely investigated PGs. Its activity influences inflammation, fertility and parturition, gastric mucosal integrity, and immune modulation. The effects of PGE2 are transduced by at least four distinct receptors designated EP1, EP2, EP3, and EP4. Affinity constants (Kd) values of PGE2 for these receptors range from 1-10 nM depending on the receptor subtype and tissue.

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