Product Data Sheet

Product Name: Prostaglandin F2α methyl ester
Cat. No.: GC18370

Chemical Properties

Cas. No.	33854-16-9		
Chemical Name	9α,11α,15S-trihydroxy-prosta-5Z,13E-dien-1-oic acid, methyl ester		
SMILES	CCCCC[C@H](O)/C=C/[C@H]1[C@H](O)C[C@H](O)[C@@H]1C/C=C\CCCC(OC)=O		
Formula	$C_{21}H_{36}O_5$	M.Wt	368.5
Solubility	DMF: 35 mg/ml,DMSO: 35 mg/ml,Ethanol: 50 mg/ml,Ethanol:PBS (pH 7.2) (1:4): 0.4 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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 F2α methyl ester (PGF2α methyl ester) is an analog of PGF2α in which the C-1 carboxyl group has been esterified as the methyl ester. PGF2α methyl ester was one of the first PG esters shown to have ocular hypotensive activity. This compound continues to be a standard by which other ocular hypotensive PG prodrugs are evaluated. The methyl ester is about 4-5 times more potent than the free acid, PGF2α. This difference is attributed to improved corneal penetration, and a depot effect of prolonged retention of the ester form of the compound in ocular tissue. A 2.5 ug dose of PGF2α-OMe applied to the eyes of cats results in a 6-8 mm Hg reduction in IOP.

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