Product Data Sheet

Product Name: ent-Prostaglandin F2α
Cat. No.: GC18794

Chemical Properties

Cas. No.	54483-31-7		
Chemical Name	9β,11β,15R-trihydroxy-(8β,12α)-prosta-5Z,13E-dien-1-oic acid		
SMILES	O[C@H]1[C@@H](C/C=C\CCCC(O)=O)[C@H](/C=C/[C@H](O)CCCCC)[C@@H](O)C1		
Formula	$C_{20}H_{34}O_5$	M.Wt	354.5
Solubility	DMF: 50 mg/ml,DMSO: 50 mg/ml,Ethanol: 50 mg/ml,PBS (pH 7.2): 2 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	ent-Prostaglandin F2α		

Background

Enzymatically-derived Prostaglandin F2α (PGF2α) is an optically pure compound whereas PGF2α derived from the free radical-catalyzed peroxidation of arachidonate is a racemic mixture. Ent-PGF2α is the opposite enantiomer of PGF2α. This compound can only be generated via the isoprostane pathway of free radical-catalyzed lipid peroxidation and has been implicated as a marker of oxidative stress. Levels of ent-PGF2α are elevated in human urine from heavy cigarette smokers and patients with hypercholesterolemia.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA