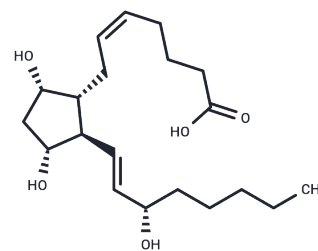


Dinoprost

Chemical Properties

CAS No. :	551-11-1
Formula:	C ₂₀ H ₃₄ O ₅
Molecular Weight:	354.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Dinoprost (Prostaglandin F _{2α}) is a naturally occurring prostaglandin. It is used in medicine to induce labor and as an abortifacient.
Targets(IC50)	Endogenous Metabolite
In vitro	Dinoprost (Prostaglandin F _{2α} ; 1 μM; for 24 hours) induces ER stress, autophagy, and apoptosis in goat luteal cells. Dinoprost (1 μM; for 24 hours) significantly increases the expression of GRP78 and UPR sensors[3].

Solubility Information

Solubility	H ₂ O: 100 mg/mL (282.10 mM), Sonication is recommended. DMSO: 100 mg/mL (282.10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.821 mL	14.1052 mL	28.2103 mL
5 mM	0.5642 mL	2.821 mL	5.6421 mL
10 mM	0.2821 mL	1.4105 mL	2.821 mL
50 mM	0.0564 mL	0.2821 mL	0.5642 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Sharma I, et al. Role of 8-iso-prostaglandin F_{2α} and 25-hydroxycholesterol in the pathophysiology of endometriosis. Fertil Steril. 2010 Jun;94(1):63-70.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481