(+)-Fluprostenol

Cat. No.: HY-108560

CAS No.: 54276-17-4

Molecular Formula: $C_{23}H_{29}F_3O_6$

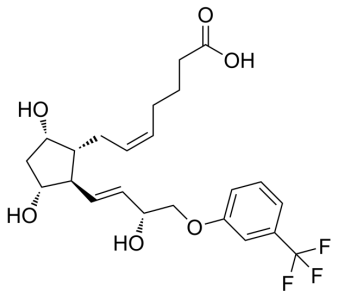
Molecular Weight: 458.47

Target: Prostaglandin Receptor

Pathway: GPCR/G Protein

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 330 mg/mL (719.79 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1812 mL	10.9058 mL	21.8117 mL
5 mM	0.4362 mL	2.1812 mL	4.3623 mL
10 mM	0.2181 mL	1.0906 mL	2.1812 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 8.25 mg/mL (17.99 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 8.25 mg/mL (17.99 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 8.25 mg/mL (17.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(+)-Fluprostenol is a potent agonist of PTGER2. (+)-Fluprostenol decreases the expression of Oviductal glycoprotein 1 (OVGP1)[1].

IC_{50} & Target

PTGER2[1]

REFERENCES

[1]. Zhang N, et al. The prostaglandin E2 receptor PTGER2 and prostaglandin F2α receptor PTGFR mediate oviductal glycoprotein 1 expression in bovine oviductal epithelial cells. J Reprod Dev. 2018;64(2):101-108.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA