

Carboprost

Chemical Properties

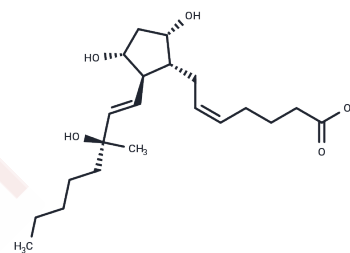
CAS No. : 35700-23-3

Formula: C₂₁H₃₆O₅

Molecular Weight: 368.51

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Carboprost (15(S)-15-Methyl Prostaglandin F ₂ α) is a synthetic analogue of PGF ₂ α with oxytocic properties, commonly used to restore uterine tone.
Targets(IC50)	Prostaglandin Receptor

Solubility Information

Solubility	DMSO: 78 mg/mL (211.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.43 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7136 mL	13.5682 mL	27.1363 mL
5 mM	0.5427 mL	2.7136 mL	5.4273 mL
10 mM	0.2714 mL	1.3568 mL	2.7136 mL
50 mM	0.0543 mL	0.2714 mL	0.5427 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Vallera C, et al. Uterotonic Medications: Oxytocin, Methylergonovine, Carboprost, Misoprostol. Anesthesiol Clin. 2017 Jun;35(2):207-219.

J W Wilks, et al. Inhibition of the Monkey Corpus Luteum With 15-methyl Prostaglandins. Prostaglandins. 1980 Nov; 20(5):793-805.

Carlan SJ, et al. Effect of intramuscular 15-methyl prostaglandin F2 alpha after second-trimester delivery. Obstet Gynecol. 1997 Jan;89(1):5-9.

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:34 Washington Street,Wellesley Hills,MA 02481