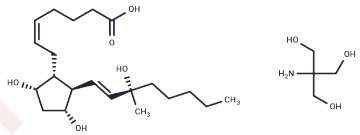
Data Sheet (Cat.No.T14865)

TargetMol

Carboprost tromethamine

Chemical Properties



CAS No. : 58551-69-2

Formula: C25H47NO8

Molecular Weight: 489.64

Storage: Store under nitrogen,Keep away from moisture
Powder: -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 tromethamine, a synthetic 15-methyl analogue of prostaglandin F2α, effectively promotes uterine contractions and significantly reduces bleeding during and post-delivery.
Targets(IC50)	Prostaglandin Receptor
In vivo	Carboprost tromethamine is reported to be 84-96% effective in addressing persistent hemorrhage resulting from uterine atony. It significantly contributes to the prevention of postpartum hemorrhage following cesarean sections, effectively improving hypercoagulable blood conditions and ensuring hemodynamic stability [1].

Solubility Information

Solubility	H2O: 125 mg/mL (255.29 mM),Sonication is recommended. DMSO: 99 mg/mL (202.19 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: 3.3 mg/mL (6.74 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0423 mL	10.2116 mL	20.4232 mL
5 mM	0.4085 mL	2.0423 mL	4.0846 mL
10 mM	0.2042 mL	1.0212 mL	2.0423 mL
50 mM	0.0408 mL	0.2042 mL	0.4085 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

Ling Z, et al. Effect of carboprost tromethamine in prevention of postpartum hemorrhage in cesarean section. Pak J Pharm Sci. 2018 Sep;31(5(Special)):2257-2262.

Bai J, et al. A comparison of oxytocin and carboprost tromethamine in the prevention of postpartum hemorrhage in high-risk patients undergoing cesarean delivery. Exp Ther Med. 2014 Jan;7(1):46-50. Epub 2013 Nov 1.

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