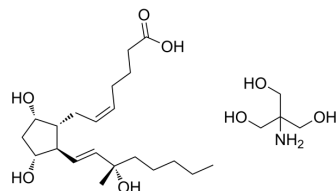


Carboprost tromethamine

Cat. No.:	HY-A0195
CAS No.:	58551-69-2
Molecular Formula:	C ₂₅ H ₄₇ NO ₈
Molecular Weight:	489.64
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (255.29 mM; Need ultrasonic)
DMSO : 100 mg/mL (204.23 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (102.12 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Carboprost tromethamine is the synthetic 15-methyl analogue of prostaglandin F_{2α}. Carboprost tromethamine can effectively promote law contraction of the uterus and significantly reduce the amount of bleeding during and after delivery [1][2].

IC₅₀ & Target

FP

In Vivo

Carboprost tromethamine has a significant effect on the prevention of postpartum hemorrhage in cesarean section, and has a significant effect on improving the state of hypercoagulable blood and maintaining the stable hemodynamic state. Carboprost tromethamine has been accounted for to be 84-96% successful in the treatment of persistent hemorrhage because of uterine atony^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. 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.
- [2]. 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.
-

Caution: Product has not been fully validated for medical applications. For research use only.

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