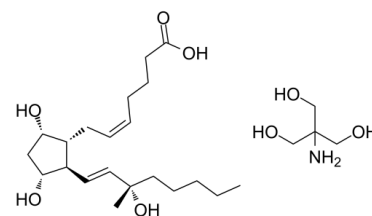


Data Sheet

Product Name:	Carboprost (tromethamine)
Cat. No.:	CS-0017541
CAS No.:	58551-69-2
Molecular Formula:	C ₂₅ H ₄₇ NO ₈
Molecular Weight:	489.64
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Solubility:	H ₂ O : 125 mg/mL (255.29 mM; Need ultrasonic); DMSO : 100 mg/mL (204.23 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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]}. **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].

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.

CAIndexNames:

Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-15-methyl-, (5Z,9α,11α,13E,15S)-, compd. with 2-amino-2-(hydroxymethyl)-1,3-propanediol (1:1)

SMILES:

CCCCC[C@](C)(O)/C=C/[C@@H]1[C@H]([C@@H](O)C[C@H]1O)C/C=C\CCCC(O)=O.OCC(CO)(N)CO

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

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