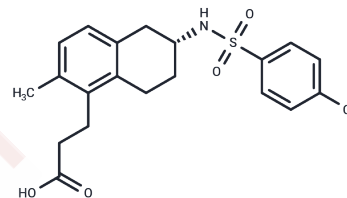


Terutroban

Chemical Properties

CAS No. :	165538-40-9
Formula:	C ₂₀ H ₂₂ ClNO ₄ S
Molecular Weight:	407.91
Storage:	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	Terutroban, a thromboxane prostaglandin receptor antagonist, affects the progression of atherosclerosis.
Targets(IC50)	Prostaglandin Receptor

Solubility Information

Solubility	DMSO: ≥ 22 mg/mL (53.93 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 (4.9 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	2.4515 mL	12.2576 mL	24.5152 mL
5 mM	0.4903 mL	2.4515 mL	4.903 mL
10 mM	0.2452 mL	1.2258 mL	2.4515 mL
50 mM	0.049 mL	0.2452 mL	0.4903 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

Bots ML, et al. Thromboxane prostaglandin receptor antagonist and carotid atherosclerosis progression in patients with cerebrovascular disease of ischemic origin: a randomized controlled trial. *Stroke*. 2014 Aug;45(8):2348-2353.

Lesault PF, et al. Daily administration of the TP receptor antagonist terutroban improved endothelial function in high-cardiovascular-risk patients with atherosclerosis. *Br J Clin Pharmacol*. 2011 Jun;71(6):844-851.

De La Cruz JP, et al. Effects of terutroban, a thromboxane/prostaglandin endoperoxide receptor antagonist, on retinal vascularity in diabetic rats. *Diabetes Metab Res Rev*. 2012 Feb;28(2):132-138.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481