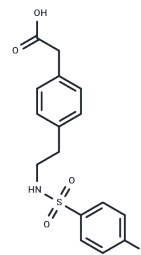


Daltroban

Chemical Properties

CAS No. :	79094-20-5
Formula:	C ₁₆ H ₁₆ ClNO ₄ S
Molecular Weight:	353.82
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	Daltroban (SKF 96148) is a specific thromboxane A ₂ (TXA ₂) receptor antagonist. Daltroban shows protective effect in reperfusion injury. Daltroban increase intracellular calcium in vascular smooth muscle cells.
Targets(IC ₅₀)	PPAR, Prostaglandin Receptor
In vivo	Daltroban (20 mg/kg per hour i.v.) reduces the ischaemia-induced rise in the ST segment and prevented the development of a Q-wave in the ECG during reperfusion, in comparison with vehicle (physiological saline)-treated cats. Daltroban (1 mg/kg; i.v.; per hour) exerts protective effect in reperfusion injury following acute myocardial ischemia in cats[2]. Daltroban protects the myocardium from ischaemic injury and that this effect involves prevention of ischaemia-induced leukocytosis[3].

Solubility Information

Solubility	DMSO: 75 mg/mL (211.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 7.5 mg/mL (21.2 mM), Suspension. <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	2.8263 mL	14.1315 mL	28.263 mL
5 mM	0.5653 mL	2.8263 mL	5.6526 mL
10 mM	0.2826 mL	1.4131 mL	2.8263 mL
50 mM	0.0565 mL	0.2826 mL	0.5653 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

Miki I, et al. Differences in activities of thromboxane A₂ receptor antagonists in smooth muscle cells. *Eur J Pharmacol.* 1992 Oct 1;227(2):199-204.

Thiemermann C, et al. The thromboxane receptor antagonist, daltroban, protects the myocardium from ischaemic injury resulting in suppression of leukocytosis. *Eur J Pharmacol.* 1988 Oct 11;155(1-2):57-67.

Bhat AM, et al. Protective effect of the specific thromboxane receptor antagonist, BM-13505, in reperfusion injury following acute myocardial ischemia in cats. *Am Heart J.* 1989 Apr;117(4):799-803.

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