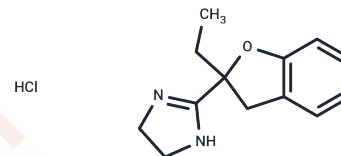


Efaroxan hydrochloride

Chemical Properties

CAS No. :	89197-00-2
Formula:	C ₁₃ H ₁₇ ClN ₂ O
Molecular Weight:	252.74
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Efaroxan hydrochloride is the salt form of Efaroxan, a selective, orally available α 2-adrenoceptor antagonist that raises resting plasma insulin levels and significantly potentiates adrenaline-induced increases in insulin levels.
Targets(IC50)	Adrenergic Receptor, Imidazoline Receptor
In vitro	Efaroxan hydrochloride binds to 1-imidazoline and α 2-adrenergic receptors in the ventrolateral medulla membrane of the cephalic bull with K_i values of 0.15 nM and 5.6 nM, respectively. [1]

Solubility Information

Solubility	H ₂ O: 40 mg/mL (158.27 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 (7.91 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	3.9566 mL	19.7832 mL	39.5664 mL
5 mM	0.7913 mL	3.9566 mL	7.9133 mL
10 mM	0.3957 mL	1.9783 mL	3.9566 mL
50 mM	0.0791 mL	0.3957 mL	0.7913 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

- T L Berridge, et al. Comparison of the effects of efaroxan and glibenclamide on plasma glucose and insulin levels in rats. *Eur J Pharmacol.* 1992 Mar 24;213(2):213-8.
- Berridge TL, et al. Selectivity profile of the alpha 2-adrenoceptor antagonist efaroxan in relation to plasma glucose and insulin levels in the rat. *Eur J Pharmacol.* 1992 Mar 24;213(2):205-12.
- T L Berridge, et al. Selectivity profile of the alpha 2-adrenoceptor antagonist efaroxan in relation to plasma glucose and insulin levels in the rat. *Eur J Pharmacol.* 1992 Mar 24;213(2):205-12.
- A O Abdel-Zaher, et al. The potential antidiabetic activity of some alpha-2 adrenoceptor antagonists. *Pharmacol Res.* 2001 Nov;44(5):397-409.

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