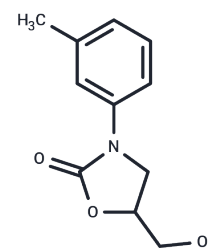


Toloxatone

Chemical Properties

CAS No. :	29218-27-7
Formula:	C ₁₁ H ₁₃ NO ₃
Molecular Weight:	207.23
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	Toloxatone (MD 69276) is a reversible inhibitor of monoamine oxidase A (MAOA).
Targets(IC50)	MAO, Monoamine Oxidase
In vivo	The maximum increase in systolic blood pressure produced by four single oral doses of tyramine administered during a meal and ranging from 100 mg to 800 mg was compared during repeated (3 to 5 days) administration of placebo, 200 mg tolloxatone three times a day and 400 mg tolloxatone three times a day in a single-blind, three-period crossover study. Tolloxatone by itself had no significant influence on blood pressure. During administration of tolloxatone, no significant increase in tyramine-induced increase in systolic blood pressure was observed for tyramine doses of 200 mg or less that are consistently higher than those associated with normal food intake [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (241.28 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 (9.65 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	4.8256 mL	24.1278 mL	48.2556 mL
5 mM	0.9651 mL	4.8256 mL	9.6511 mL
10 mM	0.4826 mL	2.4128 mL	4.8256 mL
50 mM	0.0965 mL	0.4826 mL	0.9651 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

FMoureau, et al. A reversible monoamine oxidase inhibitor, toloxatone: spectrophotometric and molecular orbital studies of the interaction with flavin adenine dinucleotide (FAD). *European Journal of Medicinal Chemistry*. 1994, 29(4):269-277.

Provost JC, et al. Pharmacokinetic and pharmacodynamic interaction between toloxatone, a new reversible monoamine oxidase-A inhibitor, and oral tyramine in healthy subjects. *Clin Pharmacol Ther*. 1992 Oct;52(4):384-93.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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