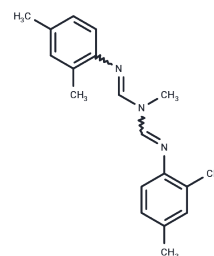


Amitraz

Chemical Properties

CAS No. :	33089-61-1
Formula:	C ₁₉ H ₂₃ N ₃
Molecular Weight:	293.41
Storage:	Store at low temperature 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	Amitraz (NSC 324552) is a white monoclinic crystals. Melting point 187-189°F (86-87°C). Insoluble in water. Used as an acaricide, insecticide and treatment of demodectic mange in dogs.
Targets(IC50)	Adrenergic Receptor,Parasite,Monoamine Oxidase

Solubility Information

Solubility	DMSO: 50 mg/mL (170.41 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 (6.82 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	3.4082 mL	17.041 mL	34.082 mL
5 mM	0.6816 mL	3.4082 mL	6.8164 mL
10 mM	0.3408 mL	1.7041 mL	3.4082 mL
50 mM	0.0682 mL	0.3408 mL	0.6816 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

Del Pino J, et al. Chem Res Toxicol. 2015 Jun 15;28(6):1073-94.

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