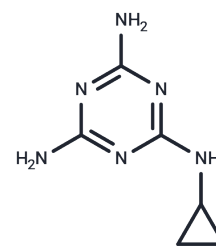


Cyromazine

Chemical Properties

CAS No. :	66215-27-8
Formula:	C ₆ H ₁₀ N ₆
Molecular Weight:	166.18
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	Cyromazine (CGA-72662) is an ectoparasiticide. Insect growth regulator. Specific activity against dipterous larvae. Cyromazine is a fda approved for use in livestock.
Targets(IC50)	Endogenous Metabolite,Parasite
In vitro	In both plants and animals, Cyromazine undergoes dealkylation metabolism and, through environmental degradation, forms melamine.
In vivo	Cyromazine may act at certain stages of cuticle sclerotization, with little to no effect on dihydrofolate reductase and the activity of aminomethylphosphonic acid. It alters the percentage or total content of phenylalanine and tyrosine amino acids in the pupal exoskeleton cuticle, resulting in larvae exhibiting typical signs of Cyromazine intoxication. The mechanism of action likely involves inhibiting the synthesis of chitin and scleroprotein.

Solubility Information

Solubility	H ₂ O: 1 mg/mL (6.02 mM),Sonication is recommended. Ethanol: 2 mg/mL (12.04 mM),Sonication is recommended. DMSO: 60 mg/mL (361.05 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: 5 mg/mL (30.09 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	6.0176 mL	30.0879 mL	60.1757 mL
5 mM	1.2035 mL	6.0176 mL	12.0351 mL
10 mM	0.6018 mL	3.0088 mL	6.0176 mL
50 mM	0.1204 mL	0.6018 mL	1.2035 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

Bel Y, et al. Arch Insect Biochem Physiol, 2000, 45(2), 69-78.

Beilstein P, et al. J. Agric. Food Chem., 1981, 29 (6), 1132-1135.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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