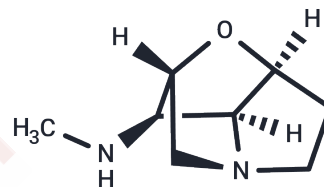


Loline

Chemical Properties

CAS No. :	25161-91-5
Formula:	C ₈ H ₁₄ N ₂ O
Molecular Weight:	154.21
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	Loline is a natural insecticidal and deterrent to a broad range of insects, including species in the Hemiptera, Coleoptera, Hymenoptera, Lepidoptera, and Blattodea orders. Loline deters species such as the bird cherry-oat aphid (genus <i>Rhopalosiphum</i>), large milkweed bug (<i>Oncopeltus fasciatus</i>), and American cockroach (<i>Periplaneta americana</i>), thereby protecting the host plant from insect herbivory.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.4847 mL	32.4233 mL	64.8466 mL
5 mM	1.2969 mL	6.4847 mL	12.9693 mL
10 mM	0.6485 mL	3.2423 mL	6.4847 mL
50 mM	0.1297 mL	0.6485 mL	1.2969 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

Adhikari KB, Boelt B, Fomsgaard IS. Identification and Quantification of Loline-Type Alkaloids in Endophyte-Infected Grasses by LC-MS/MS. *J Agric Food Chem*. 2016 Aug 10;64(31):6212-8. doi: 10.1021/acs.jafc.6b02616. Epub 2016 Aug 2. PubMed PMID: 27434508.

Finch SC, Munday JS, Munday R, Kerby JW. Short-term toxicity studies of loline alkaloids in mice. *Food Chem Toxicol*. 2016 Aug;94:243-9. doi: 10.1016/j.fct.2016.06.002. Epub 2016 Jun 6. PubMed PMID: 27276360.

Barker GM, Patchett BJ, Cameron NE. Epichloë uncinata Infection and Loline Content Protect Festulolium Grasses From Crickets (Orthoptera: Gryllidae). *J Econ Entomol*. 2015 Apr;108(2):789-97. doi: 10.1093/jee/tou058. Epub 2015 Feb 4. PubMed PMID: 26470191.

Miller KE, Wright AJ, Olesen MK, Hovey MT, Scheerer JR. Stereoselective synthesis of (+)-loline alkaloid skeleton. *J Org Chem*. 2015 Feb 6;80(3):1569-76. doi: 10.1021/jo502493e. Epub 2015 Jan 22. PubMed PMID: 25611615.

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