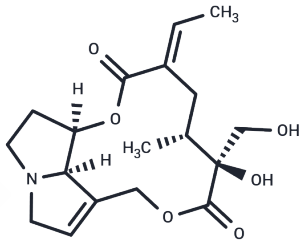
Data Sheet (Cat.No.T3S2340)

TargetMol

Usaramine

Chemical Properties



CAS No. :	15503-87-4
Formula:	C18H25NO6
Molecular Weight:	351.39
Storage:	Keep away from direct sunlight,Keep away from moisture 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	Usaramine (Mucronatine) demonstrates phytotoxicity against Lactuca sativa var. Carrascoy (lettuce) assessed as inhibition of seed germination at 50 ug/cm2 after 24 hr.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 50 mg/mL (142.29 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 (5.69 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8458 mL	14.2292 mL	28.4584 mL
5 mM	0.5692 mL	2.8458 mL	5.6917 mL
10 mM	0.2846 mL	1.4229 mL	2.8458 mL
50 mM	0.0569 mL	0.2846 mL	0.5692 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

Tu, M., Li, L., Lei, H., Ma, Z., Chen, Z., & Sun, S. et al. (2014). Involvement of organic cation transporter 1 and CYP3A4 in retrorsine-induced toxicity. Toxicology, 322, 34-42. doi: 10.1016/j.tox.2014.04.007

Yang, X., Li, W., Sun, Y., Guo, X., Huang, W., Peng, Y., & Zheng, J. (2017). Comparative Study of Hepatotoxicity of Pyrrolizidine Alkaloids Retrorsine and Monocrotaline. Chemical Research In Toxicology, 30(2), 532-539. doi: 10.1021/acs.chemrestox.6b200260

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