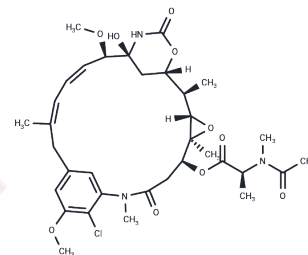


Maytansine

Chemical Properties

CAS No. :	35846-53-8
Formula:	C ₃₄ H ₄₆ ClN ₃ O ₁₀
Molecular Weight:	692.2
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	Maytansine (NSC-153858), an ansamycin antibiotic originally isolated from the Ethiopian shrub <i>Maytenus serrata</i> , inhibits the assembly of microtubules by binding to tubulin at the rhizoxin binding site.
Targets(IC50)	Microtubule Associated, Antibiotic

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 60 mg/mL (86.68 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 (2.89 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	1.4447 mL	7.2233 mL	14.4467 mL
5 mM	0.2889 mL	1.4447 mL	2.8893 mL
10 mM	0.1445 mL	0.7223 mL	1.4447 mL
50 mM	0.0289 mL	0.1445 mL	0.2889 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

Kusari S, Lamshöft M, Kusari P, Gottfried S, Zühlke S, Louven K, Hentschel U, Kayser O, Spiteller M. Endophytes are hidden producers of maytansine in *Putterlickia* roots. *J Nat Prod*. 2014 Dec 26;77(12):2577-84.

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