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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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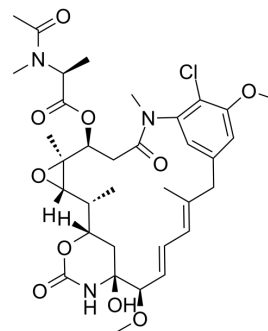
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Maytansine

Cat. No.:	HY-13674
CAS No.:	35846-53-8
Molecular Formula:	C ₃₄ H ₄₆ ClN ₃ O ₁₀
Molecular Weight:	692
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (144.51 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.4451 mL	7.2254 mL	14.4509 mL
		5 mM		0.2890 mL	1.4451 mL	2.8902 mL
		10 mM		0.1445 mL	0.7225 mL	1.4451 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.61 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.61 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (3.61 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Maytansine is a highly potent microtubule-targeted compound that induces mitotic arrest and kills tumor cells at subnanomolar concentrations ^[1] .
In Vitro	Maytansine, at 6x10 ⁻⁸ M, irreversibly inhibits cell division in eggs of sea urchins and clams. Maytansine causes the disappearance of a mitotic apparatus or prevents one from forming if added at early stages. Maytansine inhibits in vitro polymerization of tubulin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lopus M, et al. Maytansine and cellular metabolites of antibody-maytansinoid conjugates strongly suppress microtubule dynamics by binding to microtubules. Mol Cancer Ther. 2010;9(10):2689-2699.
- [2]. Remillard S, et al. Antimitotic activity of the potent tumor inhibitor maytansine. Science. 1975;189(4207):1002-1005.
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Caution: Product has not been fully validated for medical applications. For research use only.

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