Data Sheet   (Cat.No.T13944)
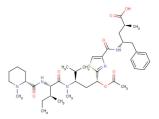
TargetMol
A DRUG SCREENING EXPERT

Tubulysin M

Chemical Properties

CAS No.:	936691-46-2
Formula：	C38H57N5O7S
Molecular Weight：	727.95
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tubulysin M is a natural product isolated from the myxobacterial species Archangium geophyra and Angiococcus disciformis, and is a highly cytotoxic peptide. Tubulysin M is a cytotoxic activity tubulysin that inhibits tubulin polymerization and leads to cell cycle arrest and apoptosis.
Targets(IC$_{50}$)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.374 mL	6.869 mL	13.737 mL
5 mM	0.275 mL	1.374 mL	2.747 mL
10 mM	0.137 mL	0.687 mL	1.374 mL
50 mM	0.027 mL	0.137 mL	0.275 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Wang Y, et al. Structural Insights into the Pharmacophore of Vinca Domain Inhibitors of Microtubules. Mol Pharmacol. 2016 Feb;89(2):233-42.

2. Kubicek K, et al. The tubulin-bound structure of the antimitotic drug tubulysin. Angew Chem Int Ed Engl. 2010 Jun 28;49(28):4809-12.

3. Vlahov IR, et al. Acid mediated formation of an N-acyliminium ion from tubulysins: a new methodology for the synthesis of natural tubulysins and their analogs. Bioorg Med Chem Lett. 2011 Nov 15;21(22):6778-81.