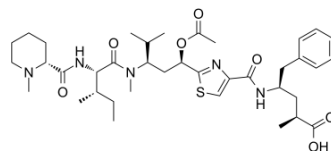


Tubulysin M

Cat. No.:	HY-N7053
CAS No.:	936691-46-2
Molecular Formula:	C ₃₈ H ₅₇ N ₅ O ₇ S
Molecular Weight:	727.95
Target:	Microtubule/Tubulin; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tubulysin M is a highly cytotoxic peptide isolated from the myxobacterial species *Archangium geophyra* and *Angiococcus disciformis*^[1]. Tubulysin displays extremely potent cytotoxic activity in mammalian cells, including multidrug-resistant cell lines, with IC₅₀ values in the lower nanomolar range^[2]. Tubulysin M is a cytotoxic activity tubulysin which inhibits tubulin polymerization and leads to cell cycle arrest and apoptosis^[3].

REFERENCES

- [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 antimetabolic 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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