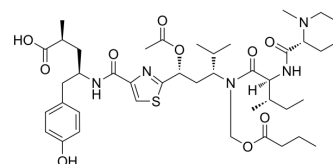


Tubulysin B

Cat. No.:	HY-N1243
CAS No.:	205304-87-6
Molecular Formula:	C ₄₂ H ₆₃ N ₅ O ₁₀ S
Molecular Weight:	830.04
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 B is a highly cytotoxic peptide and potent microtubule destabilizing agents isolated from the myxobacteria <i>Archangium geophyra</i> and <i>Angiococcus disciformis</i> . Tubulysin B has IC ₅₀ values in the picomolar range against many cancer cell lines, including those with multidrug resistant properties ^[1] . Tubulysin B is a cytotoxic activity tubulysin which inhibits tubulin polymerization and leads to cell cycle arrest and apoptosis ^[2] .
In Vitro	Tubulysin B has IC ₅₀ s of 0.6 and 0.9 nM against KB and A549 tumors cell lines, respectively. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Leamon CP, et al. Prostate-Specific Membrane Antigen-Specific Antitumor Activity of a Self-Immolative Tubulysin Conjugate. *Bioconjug Chem.* 2019 Jun 19;30(6):1805-1813.
- [2]. 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA