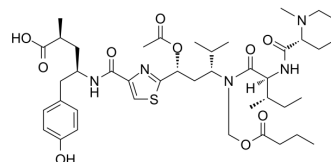


## Tubulysin B

<b>Cat. No.:</b>	HY-N1243
<b>CAS No.:</b>	205304-87-6
<b>Molecular Formula:</b>	C <sub>42</sub> H <sub>63</sub> N <sub>5</sub> O <sub>10</sub> S
<b>Molecular Weight:</b>	830.04
<b>Target:</b>	Microtubule/Tubulin; Apoptosis
<b>Pathway:</b>	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	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 <sub>50</sub> values in the picomolar range against many cancer cell lines, including those with multidrug resistant properties <sup>[1]</sup> . Tubulysin B is a cytotoxic activity tubulysin which inhibits tubulin polymerization and leads to cell cycle arrest and apoptosis <sup>[2]</sup> .
<b>In Vitro</b>	Tubulysin B has IC <sub>50</sub> 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