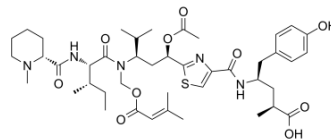


Tubulysin G

Cat. No.:	HY-N7050
CAS No.:	799822-08-5
Molecular Formula:	C ₄₃ H ₆₃ N ₅ O ₁₀ S
Molecular Weight:	842.05
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 G is a highly cytotoxic peptide isolated from the myxobacterial species *Archangium geophyra* and *Angiococcus disciformis*. Tubulysin displays extremely potent cytotoxic activity in mammalian cells, including multidrug-resistant cell lines, with IC₅₀ values in the lower nanomolar range^[1]. Tubulysin G is a cytotoxic activity tubulysin which inhibits tubulin polymerization and leads to cell cycle arrest and apoptosis^[2].

REFERENCES

[1]. 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.

[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