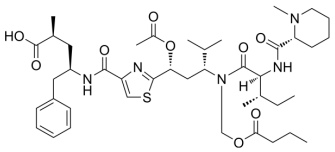
Tubulysin E

Cat. No.:	HY-N2346
CAS No.:	309935-58-8
Molecular Formula:	$C_{42}H_{63}N_5O_9S$
Molecular Weight:	814.04
Target:	ADC Cytotoxin; Microtubule/Tubulin
Pathway:	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tubulysin E is a highly cytotoxic anti-microtubule toxin (anti-microtubule toxins) that is synthesized as an ADC cytotoxin (ADC Cytotoxin). Tubulysin E can be isolated from the myxobacteria Archangium geophyra and Angiococcus disciformis. Tubulysin E displays extremely potent cytotoxic activity in mammalian cells, including multidrug-resistant cell lines, with IC_{50} values in the low nanomolar range. Tubulysin E inhibits microtubule/Tubulin polymerization and leads to cell cycle arrest and apoptosis[1][2].

REFERENCES

[1]. 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.

[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.

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