



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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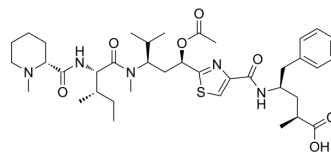
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## Tubulysin M

<b>Cat. No.:</b>	HY-N7053		
<b>CAS No.:</b>	936691-46-2		
<b>Molecular Formula:</b>	C <sub>38</sub> H <sub>57</sub> N <sub>5</sub> O <sub>7</sub> S		
<b>Molecular Weight:</b>	727.95		
<b>Target:</b>	ADC Cytotoxin; Microtubule/Tubulin		
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Cytoskeleton		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

#### Description

Tubulysin M is a highly cytotoxic anti-microtubule toxin (anti-microtubule toxins) that is synthesized as an ADC cytotoxin (ADC Cytotoxin). Tubulysin M can be isolated from the myxobacteria *Archangium geophyra* and *Angiococcus disciformis*. Tubulysin M displays extremely potent cytotoxic activity in mammalian cells, including multidrug-resistant cell lines, with IC<sub>50</sub> values in the low nanomolar range. Tubulysin M inhibits microtubule/tubulin polymerization and leads to cell cycle arrest and apoptosis<sup>[1][2][3]</sup>.

### 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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