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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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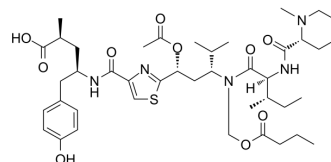
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Tubulysin B

| | |
|---------------------------|--|
| 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: | -20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (120.48 mM)
* "≥" means soluble, but saturation unknown.

| | Solvent Concentration | Mass | | |
|------------------------------|--------------------------|-----------|-----------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 1.2048 mL | 6.0238 mL | 12.0476 mL |
| | 5 mM | 0.2410 mL | 1.2048 mL | 2.4095 mL |
| | 10 mM | 0.1205 mL | 0.6024 mL | 1.2048 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Tubulysin B is a highly cytotoxic peptide and potent microtubule destabilizing agents isolated from the myxobacteria Archangium geophyra and Angiococcus disciformis. Tubulysin B has IC₅₀ 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 IC₅₀s 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.

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