
Product Data Sheet

Product Name: Tubulysin B

Cat. No.: GC37836

Chemical Properties

Cas. No. 205304-87-6

SMILES CC(O[C@@H](C1=NC(C(N[C@H])(C[C@H](C)C(O)=O)CC2=CC=C(O)C=C2)=O)=CS1)C[C@H](C(C)C)N(COC(CCC)=O)C([C@@])([C@@H](C)CC)([H])NC([C@@H](CCCC3)N3C)=O)=O

Formula C₄₂H₆₃N₅O₁₀S M.Wt 830.04

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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].

Tubulysin B has IC₅₀s of 0.6 and 0.9 nM against KB and A549 tumors cell lines, respectively.

[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*

Caution: Product has not been fully validated for medical applications. For research use only.

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Chem Lett. 2011 Nov 15;21(22):6778-81.

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