
Product Data Sheet

Product Name: Tubulysin I

Cat. No.: GC37843

Chemical Properties

Cas. No. 799822-10-9

SMILES O=C([C@@H]1N(CCCC1)C)N[C@]([C@@H](C)CC)([H])C(N(COC(C)=O)(C)C(O)=O)CC3=CC=C(O)C=C3)=O)=CS2)OC(C)=O)=O

Formula C₄₀H₅₉N₅O₁₀S M.Wt 801.99

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 I 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 I is a cytotoxic activity tubulysin which inhibits tubulin polymerization and leads to cell cycle arrest and apoptosis[2].

[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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