Product Data Sheet

Product Name: Tubulysin H
Cat. No.: GC37842

Chemical Properties

Cas. No.	799822-09-6		
SMILES	O=C(N[C@@H]([C@@H](C)CC)C(N(COC(C)=O)[C@@H](C(C)C)C[C@@H](OC(C)=O)C1=NC(C(N[C@@H](CC2=CC=CC=C2)C[C@H](C)C(O)=O)=O)=CS1)=O)[C@@H]3N(C)CCCC3		
Formula	$C_{40}H_{59}N_5O_9S$	M.Wt	785.99
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Tubulysin H		

Background

Tubulysin H is a highly cytotoxic peptide isolated from the myxobacterial species Archangium geophyra and Angiococcus disciformis[1]. Tubulysin displays extremely potent cytotoxic activity in mammalian cells, including multidrug-resistant cell lines, with IC50 values in the lower nanomolar range[2]. Tubulysin H is a cytotoxic activity tubulysin which inhibits tubulin polymerization and leads to cell cycle arrest and apoptosis[3].

[1]. Steinmetz H, et al. Isolation, crystal and solution structure determination, and biosynthesis of tubulysins--powerful inhibitors of tubulin polymerization from myxobacteria. Angew Chem Int Ed Engl. 2004 Sep 20;43(37):4888-92. [2]. 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. [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.

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