Product Data Sheet

Product Name: Tubulysin A (TubA)
Cat. No.: GC33155

Chemical Properties

Cas. No.	205304-86-5		
SMILES	O=C([C@@]([C@@H](C)CC)([H])NC([C@@H](CCCC1)N1C)=O)N(COC(CC(C)C)=O)[C@@H](C(C)C)C[C@H](C2=NC(C(N[C@H](C[C@H](C)C(O)=O)CC3=CC=C(O)C=C3)=O)=CS2)OC(C)=O		
Formula	$C_{43}H_{65}N_5O_{10}S$	M.Wt	844.07
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 A (TubA)		

Background

Tubulysin A(TubA) is a myxobacterial product that can function as an antiangiogenic agent in many in vitro assays; anti-microtubule, anti-mitotic, an apoptosis inducer, anticancer, anti-angiogenic, and antiproliferative.IC50 value: Target: microtubuleTubulysin A is a novel antibiotic, which is anti-microtubule, anti-mitotic, apoptosis inducer, anticancer, anti-angiogenic, and antiproliferative. Tubulysins are cytotoxic peptides, which include 9 members (A-I). Tubulysin A has potential application as an anticancer agent. It arrests cells in the G2/M phase. Tubulysin A inhibits polymerization more efficiently than vinblastine and induces depolymerization of isolated microtubules. Tubulysin A has potent cytostatic effects on various tumor cell lines with IC50 in the picomolar range.

[1]. Kaur G, et al. Biological evaluation of tubulysin A: a potential anticancer and antiangiogenic natural product. Biochem J. 2006 Jun 1;396(2):235-42. [2]. Sasse F, et al. Tubulysins, new cytostatic peptides from myxobacteria acting on microtubuli.

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Production, isolation, physico-chemical and biological properties. J Antibiot (Tokyo). 2000 Sep;53(9):879-85. [3]. Khalil MW, et al. Mechanism of action of tubulysin, an antimitotic peptide from myxobacteria. Chembiochem. 2006 Apr;7(4):678-83.

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