
Product Data Sheet

Product Name: Tubulysin D

Cat. No.: GC37838

Chemical Properties

Cas. No. 309935-57-7

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

Formula C₄₃H₆₅N₅O₉S M.Wt 828.07

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 D is one of the most potent derivatives among the tubulysins isolated from the myxobacterial species Archangium geophyra and Angiococcus disciformis. Tubulysin D is a novel tetrapeptide that displays potent antitumor activity and leads to cell cycle arrest and apoptosis by inhibiting tubulin polymerization with an IC₅₀ of 1.7 μM[1]. Tubulysin displays extremely potent cytotoxic activity in mammalian cells, including multidrug-resistant cell lines, with IC₅₀ values in the lower nanomolar range[2]. IC₅₀: 1.7 μM (Tubulin)[1]

Tubulysin D has IC₅₀s of 4.7 pM, 3.1 pM, 670 pM and 13 pM for HL60, HCT116, MCF7, A549 cell lines antiproliferative activity, respectively[1].

[1]. Shibue T, et al. Synthesis and biological evaluation of tubulysin D analogs related to stereoisomers of tubovaline. Bioorg Med Chem Lett. 2011 Jan 1;21(1):431-4. [2]. Kubicek K, et al. The tubulin-bound structure of the antimitotic drug tubulysin. Angew Chem Int

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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