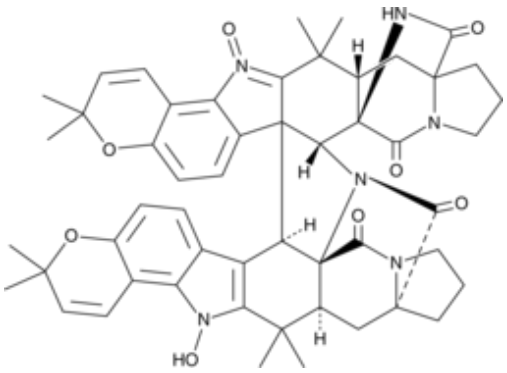
Product Data Sheet

Product Name: Stephacidin B
Cat. No.: GC48354

Chemical Properties

Cas. No.	360765-75-9		
SMILES	CC1(C(C2(C3=CC=C(O4)C(C=CC4(C)C)=C35)[C@@](C(C6=CC=C(O7)C(C=CC7(C)C)=C6N8O)=C8C9(C)C)([H])[C@]([C@@]9([H])C[C@@]%10%11C%12=O)(C(N%10CCC%11)=O)N%12[C@@]2([H])[C@]%13(NC%14=O)[C@@]1([H])CC%14%15N(CCC%15)C%13=O)=[N]5=O)C		
Formula	C52H54N6O8	M.Wt	891
Solubility		Storage	-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

Stephacidin B is a fungal metabolite that has been found in *A. ochraceus*.[1] Dimeric stephacidin B is rapidly converted to a monomer, avrainvillamide , *in vitro*.[2] Stephacidin B is cytotoxic to a variety of cancer cells, including testosterone-independent PC3 and -sensitive LNCaP prostate cancer cells (IC_{50}s = 0.37 and 0.06 µM, respectively) and estradiol-independent SK-BR-3 and -sensitive MCF-7 breast cancer cells (IC_{50}s = 0.32 and 0.27 µM, respectively). [1] It induces apoptosis in HepG2 and

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Huh7 hepatocellular carcinoma cells when used at a concentration of 4 μM.[3]

1.Qian-Cutrone, J., Huang, S., Shu, Y.-Z., et al.Stephacidin A and B: Two structurally novel, selective inhibitors of the testosterone-dependent prostate LNCaP cellsJ. Am. Chem. Soc.124(49)14556-14557(2002) 2.Wulff, J.E., Herzon, S.B., Siegrist, R., et al.Evidence for the rapid conversion of stephacidin B into the electrophilic monomer avrainvillamide in cell cultureJ. Am. Chem. Soc.129(16)4898-4899(2007) 3.Hu, L., Zhang, T., Liu, D., et al.Notoamide-type alkaloid induced apoptosis and autophagy via a P38/JNK signaling pathway in hepatocellular carcinoma cellsRSC Adv.9(34)19855-19868(2019)

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