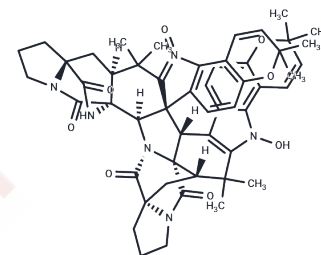


## Stephacidin B

## Chemical Properties

CAS No. :	360765-75-9
Formula:	C52H54N6O8
Molecular Weight:	891.038
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Stephacidin B is a fungal metabolite that has been found in <i>A. ochraceus</i> . 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 (IC50s = 0.37 and 0.06 $\mu$ M, respectively) and estradiol-independent SK-BR-3 and -sensitive MCF-7 breast cancer cells (IC50s = 0.32 and 0.27 $\mu$ M, respectively). 1 It induces apoptosis in HepG2 and Huh7 hepatocellular carcinoma cells when used at a concentration of 4 $\mu$ M. 3
Targets(IC50)	Others, Endogenous Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1223 mL	5.6114 mL	11.2228 mL
5 mM	0.2245 mL	1.1223 mL	2.2446 mL
10 mM	0.1122 mL	0.5611 mL	1.1223 mL
50 mM	0.0224 mL	0.1122 mL	0.2245 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- 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 cells. *J. Am. Chem. Soc.* 124(49)14556-14557(2002)
- 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 culture. *J. Am. Chem. Soc.* 129(16)4898-4899(2007)
- Hu, L., Zhang, T., Liu, D., et al. Notoamide-type alkaloid induced apoptosis and autophagy via a P38/JNK signaling pathway in hepatocellular carcinoma cells. *RSC Adv.* 9(34)19855-19868(2019)

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