

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%10CC(C%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

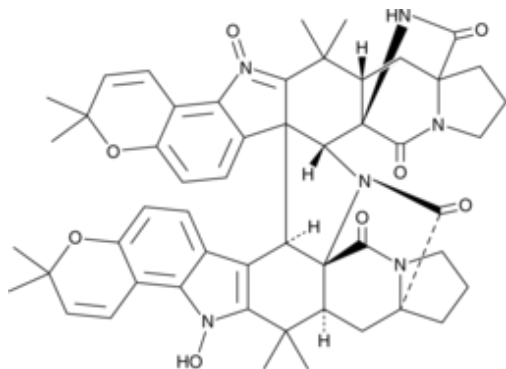
Solubility

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 (IC₅₀s = 0.37 and 0.06 μM, respectively) and estradiol-independent SK-BR-3 and -sensitive MCF-7 breast cancer cells (IC₅₀s = 0.32 and 0.27 μM, respectively).¹ It induces apoptosis in HepG2 and

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

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Huh7 hepatocellular carcinoma cells when used at a concentration of 4 μ M.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)

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