

Product Data Sheet

Product Name: Satratxin H

Cat. No.: GC46219

Chemical Properties

Cas. No. 53126-64-0

SMILES O=C(/C=C\C=C\[C@@](OCC/1)([C@@H](O)C)[C@H](O)C1=C\C2=O)O[C@@H]3C[C@@]4([H])[C@@]5(CO5)[C@@]3(C)[C@@]6(CO2)CCC(C)=C[C@@]6([H])O4

Formula C₂₉H₃₆O₉ M.Wt 528.6

Solubility Dichloromethane: soluble, DMSO: Storage Store at -20°C, protect from light
soluble, Ethanol: soluble

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.

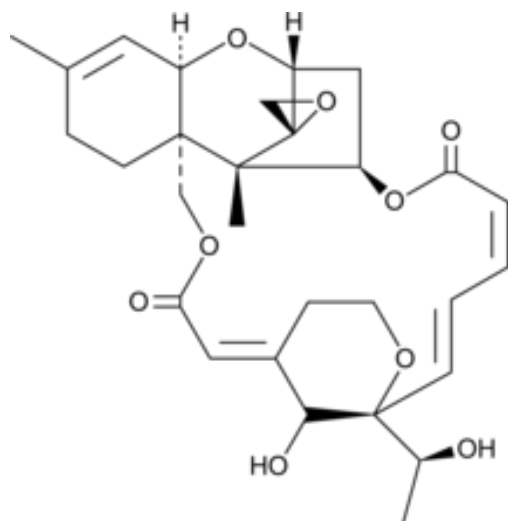
Caution: Product has not been fully validated for medical applications. For research use only.

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Structure



Background

Satratoxin H is a trichothecene mycotoxin that has been found in *Stachybotrys*.¹ It induces production of reactive oxygen species (ROS), increases in malondialdehyde (MDA) levels, and induces apoptosis in PC12 cells when used at concentrations ranging from 5 to 100 nM. Satratoxin H is cytotoxic to human umbilical vein endothelial cells (HUVECs; IC₅₀ = 6.8 ng/ml), as well as HepG2, A549, A204, U937, and Jurkat cancer cells (IC₅₀s = 1.2-3.4 ng/ml).² In vivo, satratoxin H induces ulceration of the small intestine in, and is lethal to mice (LD₅₀ = 5.69 mg/kg).³

[1. Nusuetrong, P., Pengsuparp, T., Meksuriyen, D., et al. Satratoxin H generates reactive oxygen species and lipid peroxides in PC12 cells. *Biol. Pharm. Bull.* 31(6), 1115-1120 (2008).|2. Nielsen, C., Casteel, M., Didier, A., et al. Trichothecene-induced cytotoxicity on human cell lines. *Mycotoxin Res.* 25(2), 77-84 (2009).|3. Yoshizawa, T., Ohtsubo, K., Sasaki, T., et al. Acute toxicities of satratoxins G and H in mice--a histopathological observation with special reference to the liver injury caused by satratoxin G. *Proc. Jpn. Assoc. Mycotoxicol.* 23, 53-57 (1986).

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