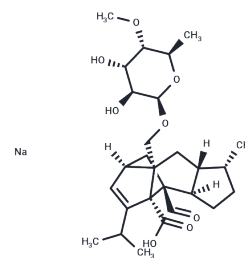


Sordarin sodium

Chemical Properties

CAS No. :	463356-00-5
Formula:	C ₂₇ H ₄₀ NaO ₈
Molecular Weight:	515.599
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	Sordarin is an inhibitor of fungal protein synthesis originally isolated from <i>S. araneosa</i> . [1] It binds to elongation factor 2 (EF-2) in the presence of ribosomes and inhibits the uncoupled GTPase activity of equimolar mixtures of EF-2 and ribosomes from <i>C. albicans</i> (IC ₅₀ = 0.1 μM). Sordarin inhibits protein synthesis in cell-free lysates of <i>C. albicans</i> , <i>C. glabrata</i> , and <i>C. neoformans</i> (IC ₅₀ s = 0.01, 0.2, and 0.06 μg/ml, respectively) but not in rabbit reticulocytes (IC ₅₀ = >100 μg/ml).[1] [2] It inhibits the growth of <i>C. albicans</i> (MIC = 8 μg/ml) but not <i>C. glabrata</i> or <i>C. neoformans</i> (MICs = >125 μg/ml).
Targets(IC50)	CaMK,Others,Antibiotic,Antifungal

Solubility Information

Solubility	H ₂ O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9395 mL	9.6974 mL	19.3949 mL
5 mM	0.3879 mL	1.9395 mL	3.879 mL
10 mM	0.1939 mL	0.9697 mL	1.9395 mL
50 mM	0.0388 mL	0.1939 mL	0.3879 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

Domínguez, J.M., Gómez-Lorenzo, M.G., and Martín, J.J. Sordarin inhibits fungal protein synthesis by blocking translocation differently to fusidic acid. *J. Biol. Chem.* 274(32), 22423-22427 (1999).

Domínguez, J.M., Kelly, V.A., Kinsman, O.S., et al. Sordarins: A new class of antifungals with selective inhibition of the protein synthesis elongation cycle in yeasts. *Antimicrob. Agents Chemother.* 42(9), 2274-2278 (1998).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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