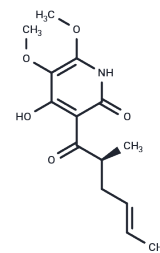


Harzianopyridone

Chemical Properties

CAS No. :	137813-88-8
Formula:	C ₁₄ H ₁₉ N ₁ O ₅
Molecular Weight:	281.308
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	Harzianopyridone is an atpenin-like compound that functions as an inhibitor of mammalian and nematode mitochondrial complex II, also known as succinate: ubiquinone oxidoreductase (SQR), demonstrating IC ₅₀ values of 0.017, 0.2, and 2 μM against bovine, rat, and nematode complex II, respectively. Additionally, it inhibits nematode quinol-fumarate reductase (QFR) with an IC ₅₀ value of 0.36 μM. Significantly selective for complex II over complexes I and III in rats and cattle, as well as complex I in nematodes, with IC ₅₀ values exceeding 100 μM, it exhibits notable antibacterial and antifungal properties, with EC ₅₀ values of 35.9, 42.2, 60.4, and 50.2 μg/ml against <i>R. solani</i> , <i>S. rolfsii</i> , <i>M. phaseolina</i> , and <i>F. oxysporum</i> , respectively.
Targets(IC ₅₀)	Others,Antifungal

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5548 mL	17.774 mL	35.548 mL
5 mM	0.711 mL	3.5548 mL	7.1096 mL
10 mM	0.3555 mL	1.7774 mL	3.5548 mL
50 mM	0.0711 mL	0.3555 mL	0.711 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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