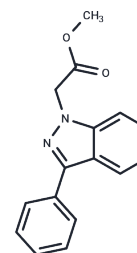


Inz-1

Chemical Properties

CAS No. :	897776-15-7
Formula:	C ₁₆ H ₁₄ N ₂ O ₂
Molecular Weight:	266.29
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Inz-1 is an effective and fungal-selective inhibitor of mitochondrial cytochrome bc1 with IC ₅₀ s of 8.092 and 45.320 μM for yeast and human. Inz-1 reverses Fluconazole or other triazole antifungals' resistance in the pathogenic fungus <i>Candida albicans</i> .
Targets(IC ₅₀)	Antifungal,Cytochromes P450
In vitro	Inz-1 against <i>Candida</i> and HepG2 respiring growth with IC ₅₀ values of 1.655 μM and >32 μM, respectively. Inz-1 (0-16 μM; 24 hours) inhibits the growth of the model yeast <i>S. cerevisiae</i> (strain BY4741) and <i>C. albicans</i> (SC5314) in media containing glucose or glycerol as the sole carbon source, while only mildly slowing growth in glucose. Inz-1 (0-100 μM; 24 hours) shows inhibition of yeast cytochrome B enzymatic activity in a concentration -dependent manner in both wild-type and F90Y mutant mitochondria. It exhibits inhibition of cytochrome bc1 from both <i>S. cerevisiae</i> and <i>C. albicans</i> with IC ₅₀ value of 2.5 μM and 8.0 μM, respectively. Inz-1 (0-100 μM; 24 hours) inhibits proliferation under forced respiration conditions only at 32 μM and only mildly at that concentration [1].

Solubility Information

Solubility	DMSO: 150 mg/mL (563.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7553 mL	18.7765 mL	37.553 mL
5 mM	0.7511 mL	3.7553 mL	7.5106 mL
10 mM	0.3755 mL	1.8777 mL	3.7553 mL
50 mM	0.0751 mL	0.3755 mL	0.7511 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

Benjamin M Vincent, et al. A Fungal-Selective Cytochrome Bc 1 Inhibitor Impairs Virulence and Prevents the Evolution of Drug Resistance. *Cell Chem Biol.* 2016 Aug 18;23(8):978-991.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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