

Inz-5

Chemical Properties

CAS No. :	1585214-21-6
Formula:	C ₁₈ H ₁₄ F ₄ N ₆
Molecular Weight:	390.34
Storage:	Store under nitrogen, Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Inz-5 is a small-molecule inhibitor of the mitochondrial electron transport chain that selectively targets mitochondrial complex III (cytochrome bc ₁ complex), disrupting the process of oxidative phosphorylation and reducing ATP production. It is commonly used in studies of mitochondrial energy metabolism, fungal respiration, and mechanisms related to the electron transport chain. Inz-5 exhibits antifungal activity against a variety of fungal pathogens, demonstrating particularly strong inhibitory effects against <i>Candida</i> species associated with candidiasis; in some studies, its minimum inhibitory concentration (MIC) against <i>Candida albicans</i> reached the sub-micromolar range (approximately 0.5 μM). Furthermore, as an inhibitor of mitochondrial oxidative phosphorylation, Inz-5 is also used to study mechanisms related to tumor cell metabolism and mitochondrial function.
Targets(IC50)	Cytochromes P450

Solubility Information

Solubility	DMSO: 80 mg/mL (204.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5619 mL	12.8093 mL	25.6187 mL
5 mM	0.5124 mL	2.5619 mL	5.1237 mL
10 mM	0.2562 mL	1.2809 mL	2.5619 mL
50 mM	0.0512 mL	0.2562 mL	0.5124 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

Vincent BM, et al. A Fungal-Selective Cytochrome bc1 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

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481