

Chitin synthase inhibitor 10

Chemical Properties

CAS No. :	2725075-01-2
Formula:	C ₂₄ H ₂₃ Br ₂ N ₃ O ₆
Molecular Weight:	609.26
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Description

Description	Chitin Synthase Inhibitor 10, as a potent chitin synthase inhibitor, exhibits remarkable inhibitory activity with an IC ₅₀ of 0.11 mM. It also functions as an antifungal agent, demonstrating substantial effectiveness against drug-resistant fungi, including <i>C. albicans</i> and <i>C. neoformans</i> . The compound is useful in researching invasive fungal infections (IFIs) [1].
In vitro	Compound 9o (chitin synthase inhibitor 10) at 300 µg/mL demonstrates notable inhibitory effects on chitin synthase, evidenced by an IC ₅₀ of 0.11 mM. Additionally, it exhibits antifungal properties against <i>C. albicans</i> , <i>A. flavus</i> , <i>A. fumigatus</i> , and <i>C. neoformans</i> , with respective MIC values of 64 µg/mL, 256 µg/mL, 128 µg/mL, and 64 µg/mL. The action of chitin synthase inhibitor 10 is associated with the perturbation of cell wall structure.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6413 mL	8.2067 mL	16.4134 mL
5 mM	0.3283 mL	1.6413 mL	3.2827 mL
10 mM	0.1641 mL	0.8207 mL	1.6413 mL
50 mM	0.0328 mL	0.1641 mL	0.3283 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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