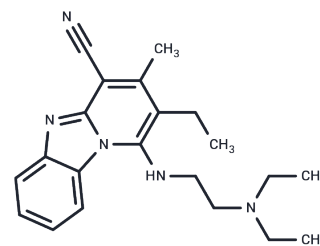


D75-4590

Chemical Properties

CAS No. : 384376-42-5
Formula: C₂₁H₂₇N₅
Molecular Weight: 349.47
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	D75-4590 is a β -1,6-Glucan inhibitor. As glucan is a major component of the cell wall, specifically β -1,6-Glucan, D75-4590 can fight fungal infections by inhibiting its synthetase.
Targets(IC50)	Others
In vitro	D75-4590 demonstrates efficacy against various Candida species, even those resistant to fluconazole. Notably, most strains of <i>C. albicans</i> , <i>C. tropicalis</i> , and <i>C. parapsilosis</i> exhibit trailing growth patterns akin to those seen with azole treatments [1].

Solubility Information

Solubility	DMSO: 45.0 mg/mL (128.8 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8615 mL	14.3074 mL	28.6148 mL
5 mM	0.5723 mL	2.8615 mL	5.723 mL
10 mM	0.2861 mL	1.4307 mL	2.8615 mL
50 mM	0.0572 mL	0.2861 mL	0.5723 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.

Reference

Akihiro Kitamura, et al. Discovery of a small-molecule inhibitor of β -1,6-glucan synthesis. Antimicrob Agents Chemother. 2009 Feb;53(2):670-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481