

FR179642

## Chemical Properties

CAS No. :	168110-44-9
Formula:	C <sub>35</sub> H <sub>52</sub> N <sub>8</sub> O <sub>20</sub> S
Molecular Weight:	936.90
Storage:	Keep away from moisture,Keep away from direct sunlight 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	FR179642 is a key intermediate in the synthesis of the antifungal drug Micafungin and also corresponds to the cyclic peptide core structure of the lipopeptide natural product FR901379. FR179642 belongs to the structural framework of echinocandin-class antifungal compounds and serves as an important reference in the structural optimization and synthesis of $\beta$ -1,3-glucan synthase inhibitors.
Targets(IC50)	Others

## Solubility Information

Solubility	H <sub>2</sub> O: 80.00 mg/mL (85.39 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	1.0673 mL	5.3367 mL	10.6735 mL
5 mM	0.2135 mL	1.0673 mL	2.1347 mL
10 mM	0.1067 mL	0.5337 mL	1.0673 mL
50 mM	0.0213 mL	0.1067 mL	0.2135 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

Satoshi Ueda, et al. Cloning and expression of the FR901379 acylase gene from Streptomyces sp. no. 6907. J Antibiot (Tokyo)

M Tomishima, et al. FK463, a novel water-soluble echinocandin lipopeptide: synthesis and antifungal activity. J Antibiot (Tokyo)

Jiang X, et al., A Hadal Streptomyces-Derived Echinocandin Acylase Discovered through the Prioritization of Protein Families. Mar Drugs. 2024 May 7;22(5):212.

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