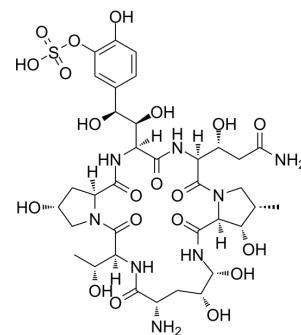


## FR179642

<b>Cat. No.:</b>	HY-129077
<b>CAS No.:</b>	168110-44-9
<b>Molecular Formula:</b>	C <sub>35</sub> H <sub>52</sub> N <sub>8</sub> O <sub>20</sub> S
<b>Molecular Weight:</b>	936.89
<b>Target:</b>	Fungal
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (106.74 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	1.0674 mL	5.3368 mL	10.6736 mL
		5 mM	0.2135 mL	1.0674 mL	2.1347 mL
	10 mM	0.1067 mL	0.5337 mL	1.0674 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (106.74 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	FR179642 is a key intermediate in the synthesis of the echinocandin antifungal Micafungin <sup>[1]</sup> . FR179642 is the cyclic peptide nucleus of the echinocandin-like antifungal lipopeptide FR901379 <sup>[2]</sup> .
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### REFERENCES

- [1]. Satoshi Ueda, et al. Cloning and expression of the FR901379 acylase gene from Streptomyces sp. no. 6907. J Antibiot (Tokyo)
- [2]. M Tomishima, et al. FK463, a novel water-soluble echinocandin lipopeptide: synthesis and antifungal activity. J Antibiot (Tokyo)

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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