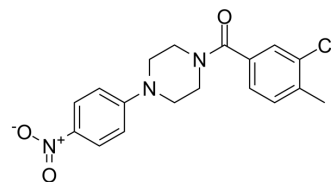


## Filastatin

Cat. No.:	HY-124701		
CAS No.:	431996-53-1		
Molecular Formula:	C <sub>18</sub> H <sub>18</sub> ClN <sub>3</sub> O <sub>3</sub>		
Molecular Weight:	359.81		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (347.41 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7792 mL	13.8962 mL	27.7924 mL
	5 mM	0.5558 mL	2.7792 mL	5.5585 mL
	10 mM	0.2779 mL	1.3896 mL	2.7792 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Filastatin is a long-lasting inhibitor of *Candida albicans* filamentation. Filastatin inhibits adhesion by multiple pathogenic *Candida* species with an IC<sub>50</sub> of ~3 μM in the GFP-based adhesion assay. Filastatin inhibits fungal adhesion to polystyrene and human cells, the yeast-to-hyphal morphological transition, induction of the hyphal-specific HWP1 promoter. Filastatin has potent antifungal effect<sup>[1]</sup>.

### REFERENCES

[1]. Ahmed Fazly, et al. Chemical screening identifies filastatin, a small molecule inhibitor of *Candida albicans* adhesion, morphogenesis, and pathogenesis. Proc Natl Acad Sci U S A. 2013 Aug 13;110(33):13594-9.

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

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