

Product Data Sheet

Product Name: Filastatin

Cat. No.: GC60841

Chemical Properties

Cas. No. 431996-53-1

SMILES O=C(C1=CC=C(C)C(Cl)=C1)N2CCN(C3=CC=C([N+](O-)=O)C=C3)CC2

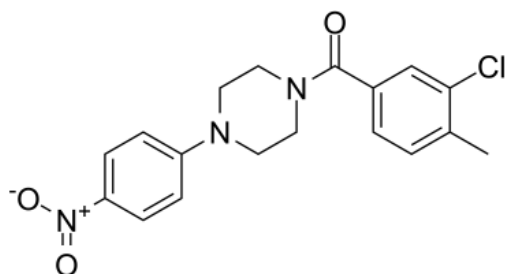
Formula $C_{18}H_{18}ClN_3O_3$ M.Wt 359.81

Solubility DMSO : 125 mg/mL (347.41 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Filastatin is a long-lasting inhibitor of *Candida albicans* filamentation. Filastatin inhibits adhesion by multiple pathogenic *Candida* species with an IC₅₀ 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[1].

[1]. Ahmed Fazly, et al. Chemical screening identifies filastatin, a small molecule inhibitor of *Candida*

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

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albicans adhesion, morphogenesis, and pathogenesis. Proc Natl Acad Sci U S A. 2013 Aug 13;110(33):13594-9.

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