

## Blasticidin S HCl

## Chemical Properties

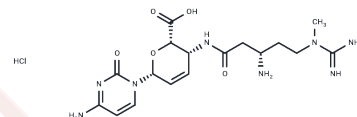
CAS No. : 3513-03-9

Formula: C<sub>17</sub>H<sub>27</sub>ClN<sub>8</sub>O<sub>5</sub>

Molecular Weight: 458.9

Storage: Store at low temperature, Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Blasticidin S HCl is a natural product and an inhibitor of protein synthesis. Blasticidin S HCl is a broad-spectrum antibiotic that can inhibit the cell growth of prokaryotes, fungi, plants and mammalian cells.
Targets(IC50)	Antibacterial, Antibiotic
In vitro	<b>METHODS:</b> Yeast cells <i>Schizosaccharomyces pombe</i> were treated with Blasticidin S HCl (0.1-60 µg/mL) for 18 h, and the absorbance was measured to detect the inhibition of cell growth. <b>RESULTS:</b> Blasticidin S HCl inhibits the growth of <i>Schizosaccharomyces pombe</i> cells. [1]

## Solubility Information

Solubility	H <sub>2</sub> O: 50 mg/mL (108.96 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	2.1791 mL	10.8956 mL	21.7912 mL
5 mM	0.4358 mL	2.1791 mL	4.3582 mL
10 mM	0.2179 mL	1.0896 mL	2.1791 mL
50 mM	0.0436 mL	0.2179 mL	0.4358 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

Kitamura K, et al. Critical role of the proton-dependent oligopeptide transporter (POT) in the cellular uptake of the peptidyl nucleoside antibiotic, blasticidin S. *Biochim Biophys Acta Mol Cell Res.* 2017;1864(2):393-398.

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