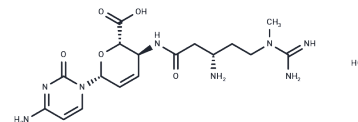


Blasticidin S HCl

Chemical Properties

CAS No. :	3513-03-9
Formula:	C ₁₇ H ₂₇ ClN ₈ O ₅
Molecular Weight:	458.9
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Blasticidin S HCl is a peptide-based nucleoside antibiotic (antibiotic) isolated from <i>Streptomyces griseochromogenes</i> that inhibits prokaryotic and eukaryotic protein synthesis by interfering with the formation of peptide bonds in the ribosome.
Targets(IC50)	Antibiotic
In vitro	Blasticidin S HCl is a broad-spectrum antibiotic that inhibits cell growth in prokaryotes, fungi, plants, and mammalian cells.[1]

Solubility Information

Solubility	H ₂ O: 18.0 mg/mL (39.2 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481