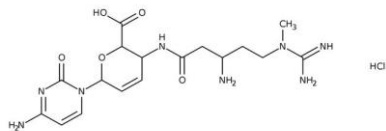


Blasticidin S HCl

Molecular structure



Product Description

Blasticidin S HCl is a nucleoside antibiotic isolated from *Streptomyces griseochromogenes* which inhibits protein synthesis in both prokaryotic and eukaryotic cells (Takeuchi et al., 1958; Yamaguchi et al., 1965). Resistance is conferred by expression of either one of two Blasticidin S deaminase genes: BSD from *Aspergillus terreus* (Kimura et al., 1994) or bsr from *Bacillus cereus* (Izumi et al., 1991). These deaminases convert Blasticidin S to a nontoxic deaminohydroxy derivative (Izumi et al., 1991).

Product Specification

Mode of Action:	inhibits protein synthesis in prokaryotic and eukaryotic cells by binding to the ribosomal P-site which strengthens tRNA binding and slows down and prevents subsequent peptide synthesis.
Conferred Resistance:	Resistance to blasticidin S is conferred by bsr, BSD, and bls resistance genes isolated from <i>Bacillus cereus</i> K55-S1, <i>Aspergillus terreus</i> , and <i>Streptoverticillum</i> spp, respectively.
Molecular weight:	458.9
Formula:	$C_{17}H_{26}N_8O_5 \cdot HCl$
Appearance:	White crystalline powder
Working Concentration:	2 to 20 $\mu\text{g/ml}$ depending on the cell line
Storage and Stability:	Frozen - 25°C to -15°C Protect from light

Ordering information

Cat. No.	Description	Unit Size	Qty/Pk
30-100-RB	Blasticidin S HCl powder	1 mg	1

For Research use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* procedures.

Support

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