

Product Information

Blasticidin S Powder

Cat. No.: TX050-900 (50 mg); TX100-900 (100 mg)

Product Description

Blasticidin S is a peptidyl nucleoside antibiotic used for selection of cells expressing the *bsr* gene which encodes for blasticidin deaminase. The antibiotic is active against many bacteria, yeast and animal cells by interfering with the peptide bond formation in the ribosomal machinery of prokaryotes and eukaryotes.

Blasticidin S is used as a selection antibiotic for mammalian cells in the concentration range of 2 – 10 µg/ml.

Applications

- Selection antibiotic
- Inactivation of Blasticidin S with acetyl transferase and deaminase
- Cells transfected with plasmids capping the *pac*, *bls*, *bsr* or *bsd* genes are resistant to Blasticidin S
- Transient and/or stable transfected cells

Features

- Nucleoside antibiotic
- Inhibition of peptidyl transfer
- Antibiotic with a broad spectrum of activity: bacteria, various animal cells and yeast
- High purity
- High activity

Product Specifications

CAS No.	3513-03-9
Molecular Weight	458.90 g/mol
Endotoxin	≤1 EU/mg
Purity	≥98.0 %
Potency	≥850 µg/mg
Storage	Shipped at ambient temperature. Store at +2°C to +8°C protected from light.
Working concentration	Recommended final concentration: 2 – 10 µg/ml for mammalian cell selection.

Preparing and Storing Stock Solutions

1. Prepare Blasticidin S stock solutions of 5 – 10 mg/ml by dissolving Blasticidin S in sterile water and filter-sterilize the solution. Blasticidin S is soluble in water and acetic acid.
Note: Blasticidin is stable in solution at a pH of 5 – 7, unstable at a pH less than 4 and decomposes under alkaline conditions. pH of the aqueous solution should not exceed 7.0 to prevent inactivation of Blasticidin S.
2. Aliquot in small volumes suitable for one time use and store at +4°C (short term). For long term storage, store at ≤-15°C. Avoid repeated freeze/thaw cycles of stock solutions.
3. Aqueous stock solutions are stable for 1 to 2 weeks at +4°C and 6 to 8 weeks at ≤-15°C. Medium containing Blasticidin S may be stored at +4°C for up to 2 weeks.

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Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.