

Product Information

Puromycin

Cat. No.: TX100-970 Volume: 100 mg

Product Description

Puromycin is an aminonucleoside antibiotic used for selection of mammalian cell lines expressing the puromycin resistance gene. The antibiotic is active against gram positive bacteria and various animal and insect cells by inhibiting the peptidyl transfer on prokaryotic and eukaryotic ribosomes. Transfected cells become resistant against Puromycin by expression of the pac gene encoding a puromycin N-acetyl transferase.

Puromycin is used as a selection antibiotic for mammalian cells in the concentration range of 0.5 – 10 µg/ml. For puromycin resistant bacteria that have been transformed with the pac gene, use a concentration of 100 – 125 µg/ml

Applications

- Selection antibiotic
- Spectrum: gram positive bacteria, various animal and insect cells
- Selection of cell types harbouring plasmids carrying puromycin resistance gene
- Can be used as an alternative to the neomycin system for transfection experiments

Features

- Aminoglycoside antibiotic
- Inhibition of peptidyl transfer
- High activity
- High purity

Product Specifications

CAS No.	58-58-2
Molecular Weight	544.43 g/mol
Endotoxin	≤1 EU/mg
Purity	≥100 %
Storage	Shipped at ambient temperature. Store at +2°C to +8°C protected from light.
Solvent	Water
Working concentration	Recommended final concentration: 0.5 – 10 µg/ml for mammalian cell selection.

Preparing and Storing Stock Solutions

Puromycin is soluble in water at 50 mg/ml yielding a clear, colorless to faint yellow solution. The stock solution may be passed through a 0.22µm filter and stored in aliquots at -20°C

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.