

★ Storage

Store at -20 °C.

✎ Contents

- Product manual
- Puromycin solution

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★ Description

Puromycin is an aminonucleoside antibiotic produced by the bacterium *Streptomyces alboniger*. It inhibits protein synthesis by disrupting peptide transfer on ribosomes causing premature chain termination during translation. It is a potent translational inhibitor in both prokaryotic and eukaryotic cells. Resistance to puromycin is conferred by the puromycin N-acetyl-transferase gene (*pac*) from *Streptomyces*. Puromycin has a fast mode of action, causing rapid cell death at low antibiotic concentrations. Adherent mammalian cells are sensitive to concentrations of 2 to 5 µg/ml, while cells in suspension are sensitive to concentrations as low as 0.5 to 2 µg/ml. Puromycin-resistant stable mammalian cell lines can be generated in less than one week.

★ Physical appearance

Clear solution.

★ M.W.

544.43

★ Molecular Formula

$C_{22}H_{29}N_7O_5 \cdot 2HCl$

★ Concentration

10mg/ml in DI water

★ Related Product

Product Name	Cat No
Gentamicin, 50mg/ml	CA003
G-418. Sulfate Solid	CR007
G-418. Sulfate, 100mg/ml, Sterile filtered Solution	CR008
Puromycin Solution, 10mg/ml, cell culture tested, 10mM	CR026
iMFectin DNA Transfection Reagent	I7100
iMFectin Poly DNA Transfection Reagent	I7200
iMFectin 2000	I7500
LucyQ Gaussia Luciferase Assay Kit	L0011
Zeocin. 100mg/ml	Z4500