

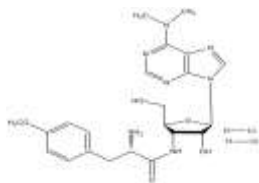
Puromycin Dihydrochloride

ALTERNATE NAME: 3'-[α -Amino-*p*-methoxyhydrocinnamamido]-3'-deoxy-N,N-dimethyladenosine dihydrochloride

CATALOG #: 1860-25, 100, 250, 500, 1000

AMOUNT: 25 mg, 100 mg, 250 mg, 500 mg, 1 g

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₂₉N₇O₅ · 2HCl

MOLECULAR WEIGHT: 544.43

CAS NUMBER: 58-58-2

APPEARANCE: White to off-white solid

SOLUBILITY: Water (~50 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C

DESCRIPTION: A nucleoside antibiotic. 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-acetyltransferase 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.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS

- Blasticidin S Hydrochloride (**Cat. No. 1859-25, 100**)
- Cycloheximide (**Cat. No. 1041-1G, 5G**)
- Cycloheximide (**100 mM**) (**Cat. No. 1041-1**)
- G-418 Sulfate (**Cat. No. 1557-100, 5G, 25G**)
- EZSolution™ Puromycin DiHydrochloride (**Cat. No. 1861-100**)