Creative Enzymes®

Puromycin Dihydrochloride

Cat. No. CEI-0634

Lot. No. (See product label)

Introduction

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-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

Product Information

Appearance Liquid

CAS No. 58-58-2

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

Chemical Name 3′-[α-Amino-p-methoxyhydrocinnamamido]-3′-deoxy-N,N-dimethyladenosine dihydrochloride

Molecular Weight 156.22

Purity >98%

Targets Protein Synthesis

Storage and Shipping Information

Storage -80 centigrade

Shipping Conditions Dry Ice