

# Puromycin Dihydrochloride

Test Items	Selection Antibiotics, Cell Culture
Cat :	AO2060-0025
Storage:	-20 °C
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Purity	>99%
Molecular Weight	544.43
Formula	$C_{22}H_{29}N_7O_5 \cdot 2HCl$
DNase, RNase activity	None Detected
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## DESCRIPTION

Puromycin is a aminonucleoside antibiotic from *Streptomyces alboniger*. It is an analogon to aminoacyl-tRNA and inhibits the protein synthesis by termination of the peptidyl transfer at the ribosomes in prokaryotes and eukaryotes. The antibiotic inhibits the growth of gram positive bacteria and different animal cells. Fungi and gram negative bacterias are resistant, since puromycin cannot pass the cell wall. The discovery of the puromycin-N-acetyltransferase (PAC) in a *Streptomyces*-stem allowed to employ the antibiotic as a selection marker, comparable to neomycin.

Stock conc.: 5-50 mg/mL in dH<sub>2</sub>O, store at -20

Working conc.: 1-30 µg/mL (mammalian cell)



**BIONOVAS Biotechnology Co., Ltd.**

**328 Technology Drive, Suite 64A ,Ann Arbor, Michigan 48108 USA**

**PHONE: (517) 337-4400 FAX:(517) 337-4407**