



Puromycin DiHCl Solution (10 mg/mL in 20 mM HEPES) PRODUCT DATA SHEET

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Product Name:	Puromycin DiHCl Solution (10 mg/mL in 20 mM HEPES)
Product Number:	P025-P026
CAS Number:	58-58-2
Molecular Formula:	$C_{22}H_{29}N_7O_5 \cdot 2HCl$
Molecular Weight:	544.43 g/mol
Form:	Solution
Appearance:	Clear and colorless or light yellow solution
Source:	<i>Streptomyces alboniger</i>
pH:	6.2 - 6.8
Storage Conditions:	-20°C
Description:	<p>Puromycin dihydrochloride (DiHCl) solution is an aminonucleoside antibiotic solution derived from <i>Streptomyces alboniger</i>. Puromycin DiHCl is routinely used as a selective agent in transfection and transformation protocols.</p> <p>Puromycin DiHCl solution is prepared at 10 mg/mL in 20 mM HEPES buffer.</p> <p>For more puromycin products, click here.</p>
Mechanism of Action:	<p>During translation, puromycin enters the ribosomal "A" site and disrupts peptide transfer. As a result, the ribosome stops and the peptide chain is terminated leading to a nonfunctional protein.</p>
Spectrum:	<p>Puromycin dihydrochloride is active against both prokaryotic and eukaryotic cells.</p>
References:	<p>Azzam, M. E. "Mechanism of Puromycin Action: Fate of Ribosomes after Release of Nascent Protein Chains from Polysomes." <i>PNAS</i> 70.12 (1973): 3866-3869. www.ncbi.gov. Web. 4 Sept. 2012.</p> <p>Vara, J. "Cloning and Expression of a Puromycin N-acetyl Transferase Gene from <i>Streptomyces Alboniger</i> in <i>Streptomyces Lividans</i> and <i>Escherichia Coli</i>." <i>Gene</i> 33.2 (1985): 195-206. Www.ncbi.gov. Web. 7 Sept. 2012.</p>

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