

DATA SHEET

Version: 2

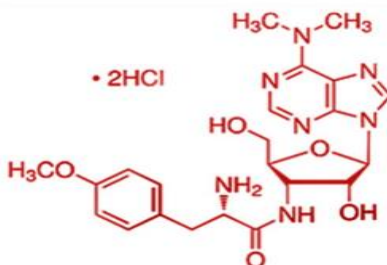
Revision date: 24/02/23

1. Identification

Product name	Puromycin dihydrochloride
	100mg
Cat. No	AB024

2. Description

Puromycin Hydrochloride is the hydrochloride salt form of puromycin, an aminonuclease antibiotic agent isolated from the bacterium *Streptomyces alboniger*. Toxic to both eukaryotic and prokaryotic cells. Acting as an analog of the 3' terminal end of aminoacyl-tRNA, puromycin incorporates itself into a growing polypeptide chain and causes its premature termination, thereby inhibiting protein synthesis. Prevents growth of bacteria, protozoa, algae, and mammalian cells.



3. Specifications

- CAS Number: 58-58-2
- Chemical Formula: $C_{22}H_{29}N_7O_5 \cdot 2HCl$
- Molecular Weight: 544.44
- Purity (HPLC): > 98%

4. Storage specifications

Store at -20° C

5. Applications

- Puromycin is widely used in cell biology as a selection antibiotic agent in mammalian cell culture systems.
- Useful in CRISPR/Cas9 mammalian gene editing by selecting for successful Cas9-induced knock-in with puromycin resistance gene.

6. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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