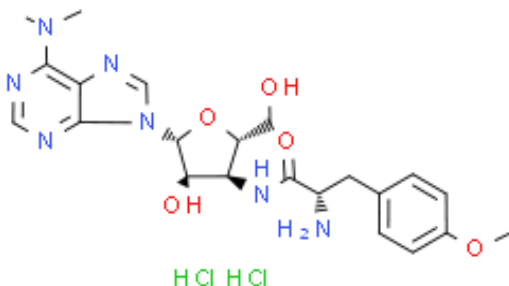


## Product Data Sheet

Cas No.:	58-58-2	Cat. No:	PC61233
Product Name:	Puromycin dihydrochloride		
Product synonym:	嘌呤霉素二盐酸盐;嘌呤霉素盐酸盐;Puromycin 嘌呤霉素;二盐酸嘌呤霉素;嘌呤霉素;嘌呤霉素,2HCl;嘌呤霉素二盐酸盐水合物;二氯化嘌呤霉素;嘌呤霉素,二盐酸		
Chemical name:	Puromycin dihydrochloride		
MF:	C22H31Cl2N7O5	FW:	544.43
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	C1C=C(OC)C=CC=1C[C@@H](C(=O)N[C@H]1[C@H]([C@H]([C@H](N2C=NC3=C(N(C)C)N=CN=C32)O[C@@H]1CO)O)N.Cl.Cl		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

Puromycin dihydrochloride (CL13900 dihydrochloride) 是一种氨基核苷类抗生素，抑制蛋白合成 (protein synthesis)。Puromycin dihydrochloride (CL13900 dihydrochloride) 是一种氨基核苷类抗生素，抑制蛋白合成 (protein synthesis)。

生物活性	Puromycin dihydrochloride (CL13900 dihydrochloride), an aminonucleoside antibiotic, inhibits protein synthesis.
IC <sub>50</sub> & Target[1][2]	Aminoglycoside

### 体外研究(In Vitro)

Puromycin blocks protein synthesis after aminoacyl-sRNA formation, and at the same time it leads to the accumulation of small peptides. Both of these effects appear to be due to the splitting of ribosome-bound peptidyl-sRNA,<sup>4</sup> which results in release of incomplete peptide chains.

Puromycin, an analog of the 3' end of aminoacyl-tRNA, causes premature termination of translation by being linked non-specifically to growing polypeptide chains.

Puromycin has two modes of inhibitory action. The first is by acting as an acceptor substrate which attacks peptidyl-tRNA in the P site to form a nascent peptide.

The second is by competing with aminoacyl-tRNA for binding to the A site.

When used in minimal amounts, puromycin incorporation in neosynthesized proteins reflects directly the rate of mRNA translation *in vitro*. Puromycin immunodetection is an advantageous alternativ

包装储存

4°C, sealed storage and away from moisture; \*In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage and away from moisture);

溶解度数据

体外研究:

H<sub>2</sub>O : 50 mg/mL(91.84 mM;Need ultrasonic and warming)

DMSO : 50 mg/mL(91.84 mM;Need ultrasonic)

Ethanol : 5 mg/mL(9.18 mM;ultrasonic and warming and heat to 60°C)

---