

Product Name:	Puromycin Aminonucleoside
Product Number:	P041
CAS Number:	58-60-6
Molecular Formula:	C ₁₂ H ₁₈ N ₆ O ₃
Molecular Weight:	294.31 g/mol
Form:	Powder
Appearance:	White crystalline
Solubility:	Water: Soluble with heat as needed
Source:	<i>Streptomyces Alboniger</i>
Melting Point:	215-216 °C
Storage Conditions:	2-8 °C

Description: Puromycin aminonucleoside is a broad spectrum ribosomal chain terminating antibiotic. Puromycin aminonucleoside is soluble in aqueous solution.

TOKU-E offers four forms of puromycin:

- [Puromycin Aminonucleoside \(P041\)](#)
- [Puromycin \(P097\)](#)
- [Puromycin Dihydrochloride \(P001\)](#)
- [Puromycin Dihydrochloride Solution \(P025\)](#)

Puromycin has moderate solubility in water while puromycin aminonucleoside and puromycin DiHCl are soluble in aqueous solution. Puromycin DiHCl solution is prepared at 10 mg/mL in 20 mM HEPES buffer.

Mechanism of Action: Puromycin aminonucleoside is used to study human glomerular disease by inducing nephropathy in laboratory animals.

References: Azzam, M. E. "Mechanism of Puromycin Action: Fate of Ribosomes after Release of Nascent Protein Chains from Polysomes." *PNAS* 70.12 (1973): 3866-3869. www.ncbi.gov. Web. 4 Sept. 2012.

Vara, J. "Cloning and Expression of a Puromycin N-acetyl Transferase Gene from *Streptomyces Alboniger* in *Streptomyces Lividans* and *Escherichia Coli*." *Gene* 33.2 (1985): 195-206. www.ncbi.gov. Web. 7 Sept. 2012.