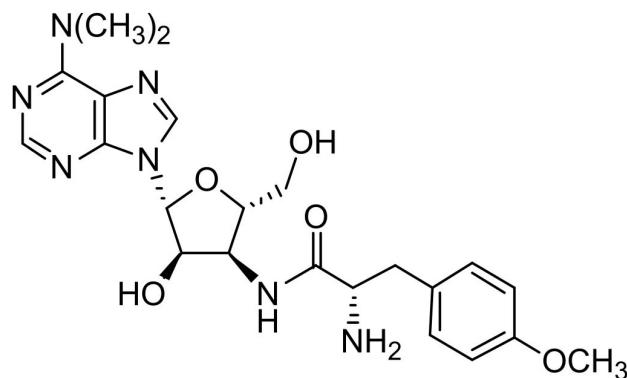


## Puromycin

Code No.: BIA-P1230

Pack sizes.: 25mg, 100mg



### Synonyms:

Achromycin, Stillomycin, Stylomycin, CL 13900, 3123L, P638, Bacterenomycin

## Specifications

CAS #	: <b>53-79-2</b>
Molecular Formula	: <b>C22H29N7O5</b>
Molecular Weight	: <b>471.5</b>
Source	: -
Appearance	: <b>White powder</b>
Purity	: <b>&gt;98% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.</b>

## Application Notes

Puromycin is a nucleoside antibiotic isolated from *Streptomyces alboniger* in the 1950s as an anti-trypanosomal agent with antibiotic activity. Puromycin is non-selective, inhibiting RNA by blocking ribosomal translation. Puromycin is used in cell biology to select mammalian cell lines that have been transformed by vectors that express puromycin-N-acetyl-transferase.

## References

1. Achromycin, the structure of the antibiotic puromycin. Waller C.W.J., Am. Chem. Soc. 1953, 75, 2025.
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3. Unexpected cytokinetic effects induced by puromycin include a G2- arrest, a metaphase-mitotic-arrest, and apoptosis. Davidoff A.N. & Mendelow B.V., Leuk. Res. 1992, 16, 1077.
4. Effect of puromycin analogues and other agents on peptidyl-puromycin synthesis on polyribosomes. Petska S. et al., Antimicrobial Agents Chemother. 1973, 4, 37.