

Puromycin 2HCl, Translation inhibitor

Catalog	Unit
TBI2100-50MG	50 mg
TBI2100-250MG	250 mg

Product Details

Formal Name: (S)-3'-[[2-amino-3-(4-methoxyphenyl)-1-oxopropyl]-amino]-3'-deoxy-N,N-dimethyl-adenosine dihydrochloride

Molecular Formula: C₂₂H₂₉N₇O₅ · 2HCl

Formula Weight: 544.43

CAS Number: 58-58-2

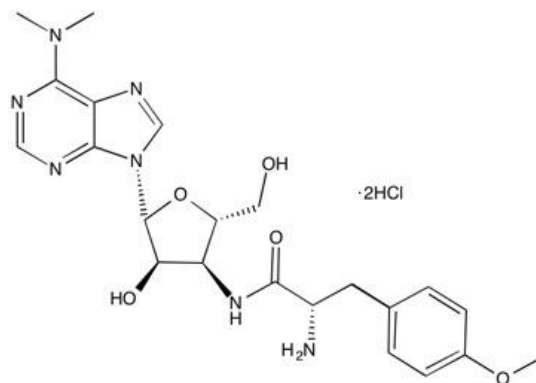
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml), or in Water (up to 50 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.



Applications

Translation inhibitor

Functions

Puromycin is an aminonucleoside antibiotic derived from *Streptomyces alboniger*. It is a protein synthesis inhibitor that disrupts peptide transfer on ribosomes causing premature chain termination. It is an inhibitor of dipeptidyl-peptidase II and cytosolic alanyl aminopeptidase. Puromycin also inhibits protein transport in mitochondria.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml), or in Water (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20° for up to 1 month.

For research use only.