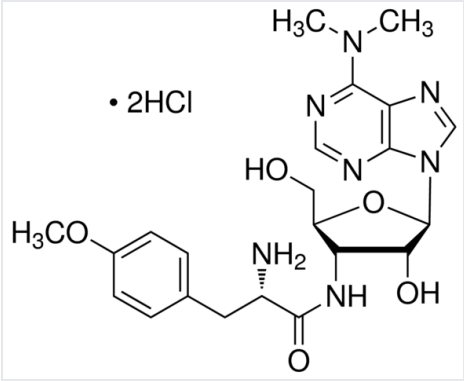
# Puromycin Small Molecule

## PRODUCT OVERVIEW

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| **Product Name** | Puromycin, Small Molecule |
| **Full Product Name** | Puromycin HCl |
| **Product Synonym Names** | Translation inhibitor; 3'-Deoxy-N,N-dimethyl-3'-[(O-methyl-L-tyrosyl)amino]adenosine |
| **Host** | Synthetic |
| **Form/Format** | Off-white powder |
| **Purity/Purification** | >98% (TLC); NMR (Conforms) |
| **Preparation and Storage** | Store at -20 degree C. |
| **Molecular Weight** | 544.43 |
| **Solubility** | May be dissolved in DMSO (50 mg/ml); or water (50 mg/ml) |
| **CAS Number** | 58-58-2 |
| **Molecular Formula** | C22H29N7O5-2HCl |
| **SMILES** | CN(C)C1=NC=NC2=C1N=CN2[C@H]3[C@@H]([C@@H]([C@H](O3)CO)NC(=O)[C@H](CC4=CC=C(C=C4)OC)N)O |
| **InChI** | 1S/C22H29N7O5/c1-28(2)19-17-20(25-10-24-19)29(11-26-17)22-18(31)16(15(9-30)34-22)27-21(32)14(23)8-12-4-6-13(33-3)7-5 |
| **InChI Key** | RXWNCPJZOCPEPQ-WABMVTPESA-N |
| **PubChem CID** | 5891 |
| **PubMed ID** | 25756236; 24637494 |
| **Product Categories/Family for Puromycin small molecule** | Small Molecules; Inhibitor; Cancer; Apoptosis |
| **Related Product Information for Puromycin small molecule** | Puromycin is an antibiotic that is a protein synthesis inhibitor that causes premature chain termination during translation taking place in the ribosome. Part of the molecule resembles the 3' end of the tRNA. It enters the A site and transfers to the growing chain, causing the premature release. It is not selective for either prokaryotes or eukaryotes. |
| **Product References and Citations for Puromycin small molecule** | 1. Azzam and Algranati. (1973) Proc Natl Acad Sci. 70: 3866. |
| **Other Notes** | Small volumes of Puromycin small molecule vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for Puromycin purchase** | MBS807986 is a small molecule targeting Puromycin. Also known as Puromycin HCl. Host: Synthetic. |




**Chemical Structure of Puromycin small molecule**
Chemical structure of Puromycin HCl (SIH-248), a Translation inhibitor. CAS #: 58-58-2.
Molecular Formula: C22H29N7O5 x 2HCl. Molecular Weight: 544.43 g/mol.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Puromycin. It may not necessarily be applicable to this product.

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|---|---|
| **Protein Family** | Puromycin-hydrolyzing enzyme |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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