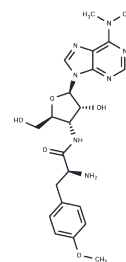


Puromycin

Chemical Properties

CAS No. :	53-79-2
Formula:	C ₂₂ H ₂₉ N ₇ O ₅
Molecular Weight:	471.51
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Puromycin (NSC-3055) is an antibiotic protein synthesis inhibitor. It inhibits protein synthesis by binding to RNA. It also serves as an anticancer drug by suppressing the growth and metastasis in esophagus cancer cells by Akt phosphorylation. It is an antineoplastic and antitrypanosomal agent and is used in research as an inhibitor of protein synthesis.
Targets(IC50)	Antibacterial, Antibiotic, Parasite

Solubility Information

Solubility	DMSO: 100 mg/mL (212.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 5 mg/mL (10.6 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1208 mL	10.6042 mL	21.2085 mL
5 mM	0.4242 mL	2.1208 mL	4.2417 mL
10 mM	0.2121 mL	1.0604 mL	2.1208 mL
50 mM	0.0424 mL	0.2121 mL	0.4242 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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