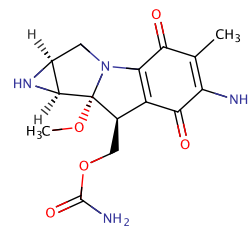


Mitomycin C

Chemical Properties

CAS No. :	50-07-7
Formula:	C ₁₅ H ₁₈ N ₄ O ₅
Molecular Weight:	334.37
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Mitomycin C (Ametycine) is an antineoplastic agent and DNA double-strand crosslinking agent capable of inducing DNA damage, inhibiting DNA synthesis, suppressing mitosis, and activating apoptosis. Mitomycin C is a broad-spectrum antibiotic against both Gram-negative and Gram-positive bacteria.
Targets(IC50)	Apoptosis, Antibacterial, Antibiotic, ADC Cytotoxin, DNA Alkylator/Crosslinker, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 41.66 mg/mL (124.59 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.98 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	2.9907 mL	14.9535 mL	29.907 mL
5 mM	0.5981 mL	2.9907 mL	5.9814 mL
10 mM	0.2991 mL	1.4953 mL	2.9907 mL
50 mM	0.0598 mL	0.2991 mL	0.5981 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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