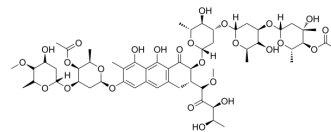


Chromomycin A3

Cat. No.:	HY-W040129
CAS No.:	7059-24-7
Molecular Formula:	C ₅₇ H ₈₂ O ₂₆
Molecular Weight:	1183.25
Target:	Bacterial; Fungal; Antibiotic; Apoptosis
Pathway:	Anti-infection; Apoptosis
Storage:	<div>Powder -20°C 3 years</div> <div>In solvent -80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (84.51 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.8451 mL	4.2256 mL	8.4513 mL
	5 mM		0.1690 mL	0.8451 mL	1.6903 mL
	10 mM		0.0845 mL	0.4226 mL	0.8451 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Chromomycin A3 is an aureolic acid-type antitumor antibiotic. Chromomycin A3 forms dimeric complexes with divalent cations, such as Mg²⁺, which strongly binds to the GC rich sequence of DNA to inhibit DNA replication and transcription. Chromomycin A3 has a variety of utilities as a staining agent for human sperm chromatin, autophagy inducing agent, and apoptosis inhibitor^[1].

REFERENCES

[1]. Murase H, et al. Evaluation of simultaneous binding of Chromomycin A3 to the multiple sites of DNA by the new restriction enzyme assay. Bioorg Med Chem Lett. 2018 Jun 1;28(10):1832-1835.

Caution: Product has not been fully validated for medical applications. For research use only.

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