

Chromomycin A2

Chemical Properties

CAS No. :	6992-70-7
Formula:	C ₅₉ H ₈₆ O ₂₆
Molecular Weight:	1211.31
Storage:	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	Chromomycin A2 is an aureolic acid that has been found in several marine actinomycetes and has antibacterial and anticancer activities. Chromomycin A2 inhibits the growth of <i>B. subtilis</i> in an agar diffusion assay. It also inhibits the growth of human SGC7901 gastric cancer, HepG2 hepatocellular carcinoma, A549 lung epithelial adenocarcinoma, HCT116 colon cancer, and COC1 ovarian cancer cells, as well as human umbilical vein endothelial cells (HUVECs; IC ₅₀ s = 4, 0.5, 3, 5, 5, and 8 nM, respectively). Chromomycin A2 (30 nM) halts the cell cycle in the G ₀ /G ₁ phase and increases the protein levels of LC3A and LC3B in MALME-3M melanoma cells, indicating that it induces autophagy. It also increases the levels and promoter activity of the autophagic proteins ATG7 and ATG10 and reduces cell viability to 50% in human SCC-11 squamous cell carcinoma cells when used at a concentration of 30 nM.
Targets(IC50)	Others, Autophagy

Solubility Information

Solubility	Methanol: Soluble DMSO: Soluble DMF: Soluble Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8256 mL	4.1278 mL	8.2555 mL
5 mM	0.1651 mL	0.8256 mL	1.6511 mL
10 mM	0.0826 mL	0.4128 mL	0.8256 mL
50 mM	0.0165 mL	0.0826 mL	0.1651 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

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