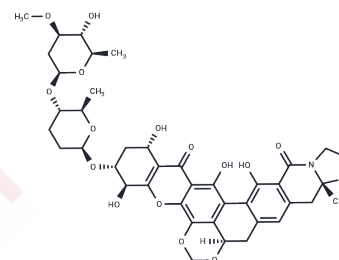


Kigamicin C

Chemical Properties

CAS No. :	680571-51-1
Formula:	C ₄₁ H ₄₇ N ₃ O ₁₆
Molecular Weight:	809.818
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Kigamicins are natural antitumor antibiotics that selectively kill pancreatic cancer PANC-1 cells only under nutrient-starved conditions. They also show antimicrobial activity against Gram-positive bacteria, including methicillin-resistant <i>S. aureus</i> . Kigamicin C inhibits PANC-1 cell survival in nutrient-deprived media at a 100-fold lower concentration than that required for cells maintained in nutrient-rich media. A related compound, kigamicin D, is active in vivo, suppressing the tumor growth of several pancreatic cancer cell lines in nude mice. It blocks the activation of Akt induced in PANC-1 cells placed in nutrient-deprived media. Kigamicin can also induce necrosis in human myeloma cells, but not normal lymphocytes, maintained in nutrient-rich media (CC ₅₀ = 100 nM).
Targets(IC ₅₀)	Others,Antibacterial,Antibiotic

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.2348 mL	6.1742 mL	12.3484 mL
5 mM	0.247 mL	1.2348 mL	2.4697 mL
10 mM	0.1235 mL	0.6174 mL	1.2348 mL
50 mM	0.0247 mL	0.1235 mL	0.247 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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