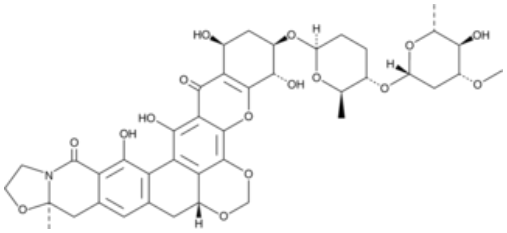
Product Data Sheet

Product Name: Kigamicin C
Cat. No.: GC44003

Chemical Properties

Cas. No.	680571-51-1		
SMILES	O=C1C2=C([C@@H](O)[C@H](O[C@]3([H])O[C@H](C)[C@@H](O[C@@]4([H])C[C@@H](OC)[C@H](O)[C@@H](C)O4)CC3)C[C@@H]2O)OC(C1=C5O)=C6OCO[C@@]7([H])C6=C5C(C(O)=C(C(N(CCO8)[C@@]8(C)C9)=O)C9=C%10)=C%10C7		
Formula	C41H47NO16	M.Wt	809.8
Solubility	DMF: soluble,DMSO: soluble,Ethanol: soluble,Methanol: soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

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 S. aureus. 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 (CC50 = 100 nM).

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