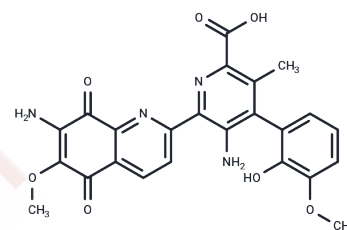


10'-Desmethoxystreptonigrin

Chemical Properties

CAS No. :	136803-89-9
Formula:	C ₂₄ H ₂₀ N ₄ O ₇
Molecular Weight:	476.445
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	10'-Desmethoxystreptonigrin is an antibiotic originally isolated from Streptomyces and a derivative of the antibiotic streptonigrin. It is active against a variety of bacteria, including <i>S. aureus</i> , <i>S. faecalis</i> , <i>E. coli</i> , <i>K. pneumoniae</i> , and <i>P. vulgaris</i> (MICs = 0.4, 1.6, 3.1, 3.1 and 0.4 µg/ml, respectively). 10'-Desmethoxystreptonigrin is cytotoxic to HCT116 colon and A2780 ovarian cancer cells (IC ₅₀ s = 0.004 and 0.001 µg/ml, respectively), as well as HCT116 cells resistant to etoposide and teniposide and cisplatin-resistant A2780 cells (IC ₅₀ s = 0.003, 0.001, and 0.01 µg/ml, respectively). 10'-Desmethoxystreptonigrin is also an inhibitor of p21ras farnesylation (IC ₅₀ = 21 nM).
Targets(IC ₅₀)	Others,Antibacterial,Antibiotic,Transferase

Solubility Information

Solubility	DMSO: Soluble Methanol: 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	2.0989 mL	10.4943 mL	20.9886 mL
5 mM	0.4198 mL	2.0989 mL	4.1977 mL
10 mM	0.2099 mL	1.0494 mL	2.0989 mL
50 mM	0.042 mL	0.2099 mL	0.4198 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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