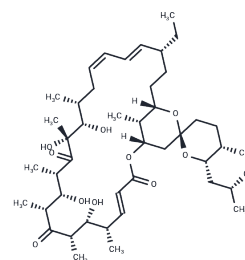


Rutamycin

Chemical Properties

CAS No. :	1404-59-7
Formula:	C ₄₄ H ₇₂ O ₁₁
Molecular Weight:	777.049
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	Rutamycin is a macrolide antibiotic of the oligomycin group obtained from <i>Streptomyces rutgersensis</i> . It inhibits various ATPases and uncouples oxidative phosphorylation from electron transport.
Targets(IC50)	Others,Ras

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2869 mL	6.4346 mL	12.8692 mL
5 mM	0.2574 mL	1.2869 mL	2.5738 mL
10 mM	0.1287 mL	0.6435 mL	1.2869 mL
50 mM	0.0257 mL	0.1287 mL	0.2574 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.

Reference

- Lichter T, Getz GS. Cytoplasmic inheritance of rutamycin resistance in mouse fibroblasts. *Proc Natl Acad Sci U S A*. 1978 Jan;75(1):324-8. PubMed PMID: 146879; PubMed Central PMCID: PMC411240.
- Panek JS, Jain NF. Total synthesis of rutamycin B and oligomycin C. *J Org Chem*. 2001 Apr 20;66(8):2747-56. PubMed PMID: 11304197.
- Foury F, Tzagoloff A. Localization on mitochondrial DNA of mutations leading to a loss of rutamycin-sensitive adenosine triphosphatase. *Eur J Biochem*. 1976 Sep;68(1):113-9. PubMed PMID: 134892.
- White JD, Hanselmann R, Jackson RW, Porter WJ, Ohba Y, Tiller T, Wang S. Total synthesis of rutamycin B, a macrolide antibiotic from *Streptomyces aureofaciens*. *J Org Chem*. 2001 Jul 27;66(15):5217-31. PubMed PMID: 11463276.

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