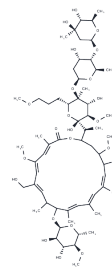


Amycolatopsin A

Chemical Properties

CAS No. :	2209112-96-7
Formula:	C ₆₀ H ₉₈ O ₂₃
Molecular Weight:	1187.421
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	Amycolatopsin A is a macrolide polyketide originally isolated from Amycolatopsis that has antimycobacterial and anticancer activities. It is active against <i>M. bovis</i> and <i>M. tuberculosis</i> (IC ₅₀ s = 0.4 and 4.4 μM, respectively) but not <i>B. subtilis</i> , <i>S. aureus</i> , <i>E. coli</i> , or <i>P. aeruginosa</i> (IC ₅₀ s = >30 μM for all). Amycolatopsin A is cytotoxic to SW620 colorectal and NCI H460 lung cancer cells (IC ₅₀ s = 0.08 and 1.2 μM, respectively).
Targets(IC ₅₀)	Others, Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8422 mL	4.2108 mL	8.4216 mL
5 mM	0.1684 mL	0.8422 mL	1.6843 mL
10 mM	0.0842 mL	0.4211 mL	0.8422 mL
50 mM	0.0168 mL	0.0842 mL	0.1684 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

Khalil, Z.G., Salim, A.A., Vuong, D., et al. Amycolatopsins A-C: Antimycobacterial glycosylated polyketide macrolides from the Australian soil *Amycolatopsis* sp. MST-108494J. *Antibiot. (Tokyo)* 70(12)1097-1103(2017)

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