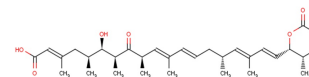


Leptomycin A

Chemical Properties

CAS No.:	87081-36-5
Formula:	C ₃₂ H ₄₆ O ₆
Molecular Weight:	526.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Leptomycin A suppresses HIV-1 replication. Less potent than Leptomycin B. Leptomycin A, a Streptomyces metabolite, is an inhibitor of CRM1 (exportin 1) that blocks CRM1 interaction with nuclear export signals, preventing the nuclear export of a broad range of proteins.
Targets(IC ₅₀)	CRM1: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.899 mL	9.493 mL	18.986 mL
5 mM	0.38 mL	1.899 mL	3.797 mL
10 mM	0.19 mL	0.949 mL	1.899 mL
50 mM	0.038 mL	0.19 mL	0.38 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kudo, N., et al. Leptomycin B inhibition of signal-mediated nuclear export by direct binding to CRM1. Exp. Cell Res. 242(2), 540-547 (1998).
2. Wolff B, et al. Leptomycin B is an inhibitor of nuclear export: inhibition of nucleo-cytoplasmic translocation of the human immunodeficiency virus type 1 (HIV-1) Rev protein and Rev-dependent mRNA. Chem Biol. 1997 Feb;4(2):139-47.

Inhibitors · Natural Compounds · Compound Libraries

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