

Leptomycin A

Chemical Properties

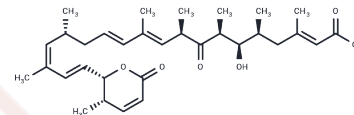
CAS No. : 87081-36-5

Formula: C32H46O6

Molecular Weight: 526.7

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	Leptomycin A, a metabolite derived from Streptomyces, acts as an inhibitor of CRM1 (exportin 1) and effectively suppresses HIV-1 replication. Compared to Leptomycin B, it exhibits lesser potency. Leptomycin A hampers the interaction between CRM1 and nuclear export signals, effectively hindering the nuclear export of a wide array of proteins.
Targets(IC50)	HIV Protease, Antibiotic, CRM1

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8986 mL	9.4931 mL	18.9861 mL
5 mM	0.3797 mL	1.8986 mL	3.7972 mL
10 mM	0.1899 mL	0.9493 mL	1.8986 mL
50 mM	0.038 mL	0.1899 mL	0.3797 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

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).

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481