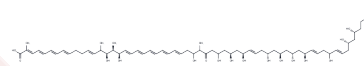


## Linearmycin A

## Chemical Properties

CAS No. :	163596-98-3
Formula:	C <sub>64</sub> H <sub>101</sub> N <sub>0</sub> O <sub>16</sub>
Molecular Weight:	1140.5
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	Linearmycin A is a polyene antibiotic discovered in streptomycetes, exhibiting inhibitory activity against bacteria and fungi including <i>S. aureus</i> , <i>E. coli</i> , <i>B. subtilis</i> , <i>S. cerevisiae</i> , <i>C. albicans</i> , and <i>A. niger</i> .
Targets(IC50)	Antibacterial, Antibiotic, Antifungal

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8768 mL	4.384 mL	8.7681 mL
5 mM	0.1754 mL	0.8768 mL	1.7536 mL
10 mM	0.0877 mL	0.4384 mL	0.8768 mL
50 mM	0.0175 mL	0.0877 mL	0.1754 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

Sakuda, S., Guce-Bigol, U., Itoh, M., et al. Novel linear polyene antibiotics: Linearmycins. *J. Chem. Soc., Perkin Trans.* 1182315-2319(1996)

Stubbendieck RM, Straight PD. Escape from Lethal Bacterial Competition through Coupled Activation of Antibiotic Resistance and a Mobilized Subpopulation. *PLoS Genet.* 2015 Dec 8;11(12):e1005722.

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