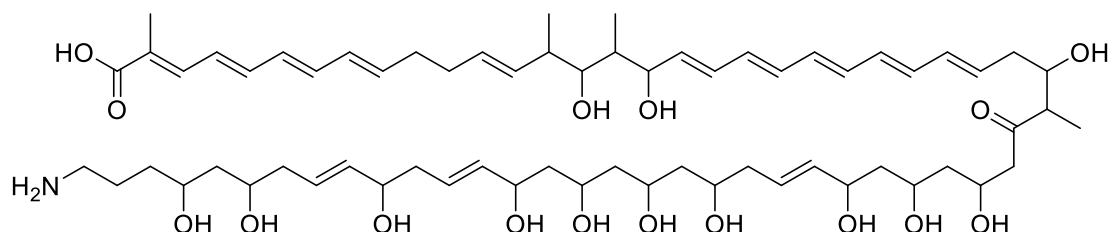


## Linearmycin A

Code No.: **BIA-L2363**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

## Specifications

CAS #	: <b>163596-98-3</b>
Molecular Formula	: <b>C<sub>64</sub>H<sub>101</sub>NO<sub>16</sub></b>
Molecular Weight	: <b>1140.5</b>
Source	: <b><i>Streptomyces</i> sp.</b>
Appearance	: <b>Brown solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

## Application Notes

Linearmycin A is novel linear polyene antibiotic isolated from mycelial extracts of *Streptomyces* sp. Linearmycin A and B have similar, long linear structures terminating with amino and carboxylic acid groups. The carboxylic acid terminal of linearmycin A links to a tetraenone, whereas linearmycin B links to a pentaenone. Linearmycin A has antifungal activity against *Candida albicans*. Linearmycin A has antibacterial activity, causing cellular lysis and colony degradation of the Gram-positive bacterium *Bacillus subtilis* acting directly on the cytoplasmic membrane.

## References

1. Linearmycin A, a novel linear polyene antibiotic. Sakuda S. et al. *Tetrahed Lett.* 1995, 36, 2777.
2. Novel linear polyene antibiotics: linearmycins. Sakuda S. et al. *J Chem Soc Perkin Trans. 1*, 1996, 2315.
3. Linearmycins are lytic membrane-targeting antibiotics. Stubbendieck R.M. et al. *J Antibiot.* 2018, 71, 372.