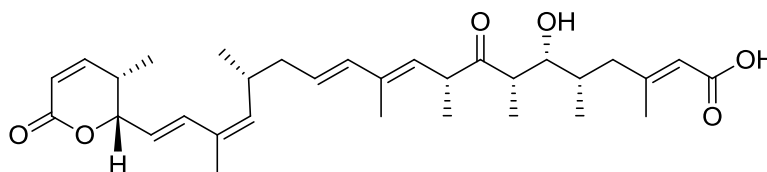


## Leptomycin A

Code No.: **BIA-L1045**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : ATS 1287A, PD 118607, Jildamycin

### Specifications

CAS #	: 87081-36-5
Molecular Formula	: C <sub>32</sub> H <sub>46</sub> O <sub>6</sub>
Molecular Weight	: 526.7
Source	: <i>Streptomyces</i> sp.
Appearance	: Colourless Film
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol or methanol. Poor water solubility. Ethanol recommended. Unstable in DMSO.

### Application Notes

Leptomycin A, a methyl analogue of leptomycin B, is a minor component of the leptomycin complex produced by selected *Streptomyces* species. Leptomycin B is a potent inhibitor of the nuclear transport receptor CRM1. Leptomycin A is also likely to inhibit nuclear transport and may offer differences in exporter selectivity. Leptomycin A shows antimicrobial activity against *Schizosaccharomyces pombe* and *Mucor rouxianus*.

### References

1. Leptomycins A and B, new antifungal antibiotics. I. Taxonomy of the producing strain and their fermentation, purification and characterization. Hamamoto T. et al., J Antibiot. 1983, 36, 639.
2. Leptomycins A and B, new antifungal antibiotics. II. Structure elucidation. Hamamoto T. et al., J Antibiot. 1983, 36, 646.
3. Leptomycin B, an inhibitor of the nuclear export receptor CRM1, inhibits COX-2 expression. Jang B.C. et al., J. Biol. Chem. 2003, 278, 2773.