

#### PRODUCT DATA SHEET

# Leptomycin A

Code: **BIA-L1045** 

Pack sizes: 0.1 mg, 0.5 mg

Antibiotic ATS 1287A, Antibiotic PD 118607, Jildamycin Synonyms

#### Specifications

CAS# 87081-36-5

Molecular Formula : C<sub>32</sub>H<sub>46</sub>O<sub>6</sub> Molecular Weight 526.7

Source : Streptomyces sp. MST-AS4898

Appearance : Colourless Film : > 99% by HPLC Purity

Long Term Storage : -20°C

Solubility : Soluble in ethanol or methanol. Ethanol recommended. Unstable in DMSO.

## **Application Notes**

Leptomycin A, a methyl (cf. ethyl) 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 Schizosaccaromyces 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.

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