

Product Name: Leptomycin A

Product Number: L020

CAS Number: 87081-36-5

Molecular Formula: $C_{32}H_{46}O_6$

Molecular Weight: 526.7

Appearance: Colourless Film

Storage Conditions: -20°C

Description: 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*.

Leptomycin A is soluble in ethanol or methanol. Poor water solubility. Ethanol recommended. Unstable in DMSO.

References: 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.

Leptomycins A and B, new antifungal antibiotics. II. Structure elucidation. Hamamoto T. et al. J Antibiot. 1983, 36, 646.

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.