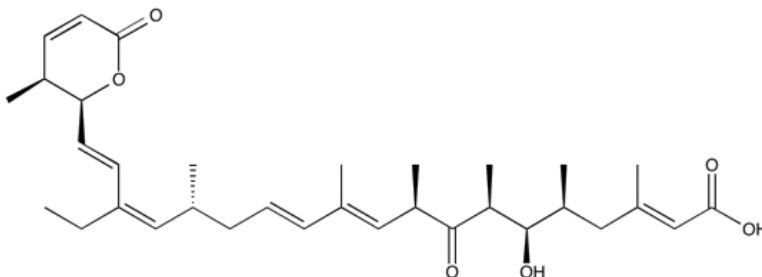


Catalog # 10-2084

Leptomycin B

CAS# 87081-35-4

Lot # X101408



Inhibitor of nuclear export of proteins. Acts via covalent binding to and inhibiting CRM1/exportin-1¹. Inhibits the nuclear export of the HIV regulatory protein Rev². Stabilizes p53 by blocking its nuclear export³.

- 1) Kudo *et al.* (1998), *Leptomycin B inhibition of signal-mediated nuclear export by direct binding to CRM1*; Exp. Cell Res., **242** 540
- 2) Wolff *et al.* (1997), *Leptomycin B is an inhibitor of nuclear export: inhibition of nucleo-cytoplasmic translocation of the human immunodeficiency virus type 1 (HIV-1) Rev protein and Rev-dependent mRNA*; Chem. Biol., **4** 139
- 3) Freedman and Levine (1998), *Nuclear export is required for degradation of endogenous p53 by MDM2 and human papillomavirus E6*; Mol. Cell. Biol., **18** 7288

PHYSICAL DATA

| | |
|------------------------|--|
| Molecular Weight: | 540.75 |
| Molecular Formula: | C ₃₃ H ₄₈ O ₆ |
| Purity: | 99% by HPLC |
| | NMR: (Conforms) |
| Solubility: | Further dilutions may be made with DMSO or Ethanol |
| Physical Description: | Solution in ethanol (1 mg/ml) |
| Storage and Stability: | Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO are unstable and must be used within one working day. Do not store DMSO solutions. |

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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