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**Product Data Sheet**


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Product Name: Leptomycin A

Cat. No.: GC18345

**Chemical Properties**

Cas. No. 87081-36-5

Chemical Name (2E,6R)-19-[(2S,3S)-3,6-dihydro-3-methyl-6-oxo-2H-pyran-2-yl]-6-hydroxy-3,5S,7S,9R,11,15R,17-heptamethyl-8-oxo-2,10E,12E,16Z,18E-nonadecapentaenoic acid

SMILES O=C1O[C@@H](/C=C/C(C)=C\[C@H](C)C/C=C/C(C)=C/[C@H](C([C@H]([C@@H]([C@H](C/C(C)=C/C(O)=O)C)O)C)=O)C)[C@@H](C)C=C1

Formula C<sub>32</sub>H<sub>46</sub>O<sub>6</sub>

M.Wt 526.7

Solubility Ethanol: Soluble, Methanol: Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Leptomycin A, a *Streptomyces* metabolite, is an inhibitor of CRM1 (exportin 1) that blocks CRM1 interaction with nuclear export signals, preventing the nuclear export of a broad range of proteins. Leptomycin A suppresses HIV-1 replication. Less potent than Leptomycin B [1][2].

**References:**

[1]. Kudo, N., et al. Leptomycin B inhibition of signal-mediated nuclear export by direct binding to CRM1. *Exp. Cell Res.* 242(2), 540-547 (1998).

[2]. Wolff B, et al. Leptomycin B is an inhibitor of nuclear export: inhibition of nucleocytoplasmic translocation of the human immunodeficiency virus type 1 (HIV-1) Rev protein and Rev-dependent mRNA. *Chem Biol.* 1997 Feb;4(2):139-47.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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