1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{33}\text{H}_{48}\text{O}_{6} \)
Batch Molecular Weight: 540.74
Physical Appearance: Colourless solution
Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 27µg/ml)
Storage: Desiccate at -20°C

2. ANALYTICAL DATA

HPLC: Shows 100% purity
Product Name: Leptomycin B

CAS Number: 87081-35-4

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

Description:
Antifungal antibiotic that is an inhibitor of the nuclear export of proteins; acts by binding directly to and inhibiting CRM1/exportin-1. Inhibits the nuclear export of the HIV regulatory protein Rev and stabilizes p53. Antitumor in vitro and in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{33}H_{40}O_{8}
Batch Molecular Weight: 540.74
Physical Appearance: Colourless solution

Storage: Desiccate at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 27µg/ml)
This product is supplied dissolved in anhydrous ethanol at a concentration of 27µg/ml.

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: