

Product Data Sheet

Product Name: Streptogramin B

Cat. No.: GC48111

Chemical Properties

Cas. No. 3131-03-1

SMILES O=C1C[C@](C(N[C@@H](C2=CC=CC=C2)C(O[C@H](C)[C@H](NC(C3=C(O)C=CC=N3)=O)C4=O)=O)=O)([H])N(C([C@@](CC5=CC=C(N(C)C)C=C5)([H])N(C)C([C@]6([H])C(CCN6C([C@H](N4)CC)=O)=O)=O)CC1

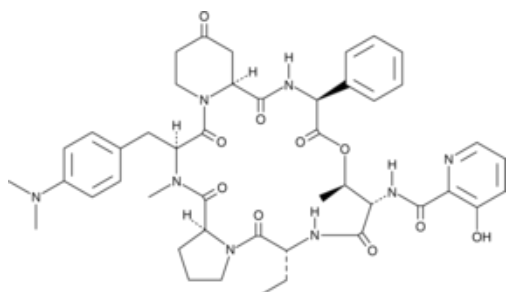
Formula C₄₅H₅₄N₈O₁₀ M.Wt 867

Solubility Chloroform: 30 mg/ml, DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:4): 0.20 mg/ml 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

Streptogramin B is a macrolide antibiotic.¹ It inhibits the growth of *Clostridium*, *Peptostreptococcus*, and *Propionibacterium* bacterial species (MIC₉₀s = 2, 0.5, and 8 µg/ml, respectively).² Streptogramin B inhibits protein synthesis by interacting with the 50S ribosome.¹ Resistance to streptogramin B is conferred by erythromycin ribosome methylation (*erm*) genes, which code for methylases that methylate the 50S ribosome, interfering with streptogramin B binding.

1. Roberts, M.C., Sutcliffe, J., Courvalin, P., et al. Nomenclature for macrolide and macrolide-

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

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lincosamide-streptogramin B resistance determinantsAntimicrob. Agents Chemother.43(12)2823-2830(1999) 2.Laforest, H., Fourgeaud, M., Richet, H., et al.Comparative in vitro activities of pristinamycin, its components, and other antimicrobial agents against anaerobic bacteriaAntimicrob. Agents Chemother.32(7)1094-1096(1988)

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