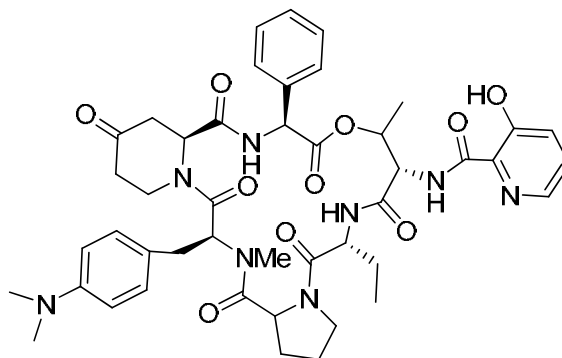


Virginiamycin B

Code: **BIA-V1132**

Pack sizes: **5 mg, 25 mg**



Synonyms : **Ostreogrycin B, Pristinamycin IA, Streptogramin B, Syncothrecin B1, Synergistin B, Vernamycin B α , Virginiamycin 1A, NSC 125176, Antibiotic 14725-1, Antibiotic PA 114B, Antibiotic RP 12535**

Specifications

CAS # : **3131-03-1**
Molecular Formula : **C₄₅H₅₄N₈O₁₀**
Molecular Weight : **867.0**
Source : ***Streptomyces* sp.**
Appearance : **White solid**
Purity : **> 99% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility**

Application Notes

Virginiamycin B is a depsipeptide antibiotic co-produced with ostreogrycin A and used as a synergistic mixture. Virginiamycin B, also known as ostreogrycin B and streptogramin B among other synonyms, was discovered independently and named by several groups leading to considerable confusion in the literature. Virginiamycin B acts as a synergist binding to the conformational change in the peptidyl transferase centre of the 50S ribosome induced by ostreogrycin A.

References

1. Preparation and properties of an antibiotic complex E129. Ball S. Biochem. J. 1958, 68, 24P.
2. Inhibition of protein synthesis by streptogramins and related antibiotics. Cocito C. et al. J. Antimicrob. Chemotherap. 1997, 39, 7.
3. Sites of interaction of streptogramin A and B antibiotics in the peptidyl transferase loop of 23 S rRNA and the synergism of their inhibitory mechanisms. Porse B. T. and Garrett R. A. J. Mol. Biol. 1999, 286, 375.