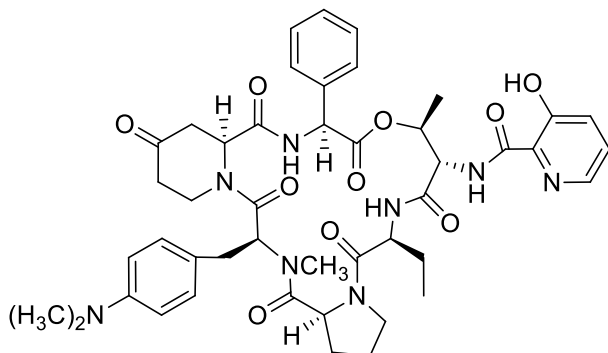


Virginiamycin B

Code No.: **BIA-V1132**

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



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

Specifications

CAS #	: 3131-03-1
Molecular Formula	: C₄₅H₅₄N₈O₁₀
Molecular Weight	: 867
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% 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, together 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 of 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.