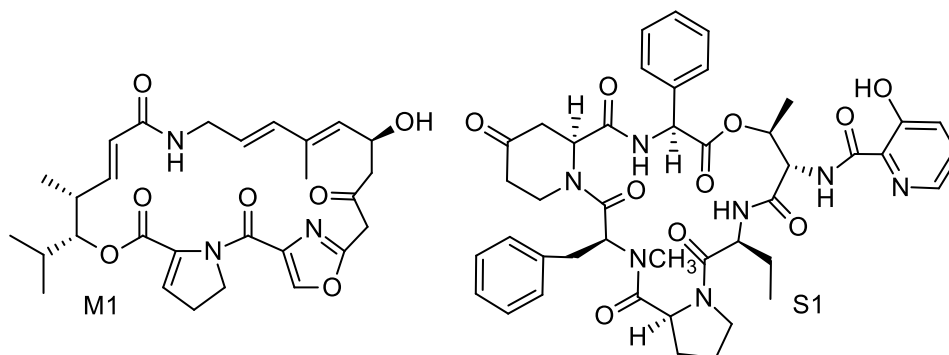


Virginiamycin complex

Code No.: **BIA-V1188**

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



Synonyms : Cebin V, Eskalin V, Eskamicin, Stafac, Stephylomycin, Mikamycin, Ostreogrycin, Patricin, Pristinamycin, Streptogramin, Vernamycin.

Specifications

CAS #	: 11006-76-1
Molecular Formula	: C ₂₈ H ₃₅ N ₃ O ₇ (for M ₁), C ₄₃ H ₄₉ N ₇ O ₁₀ (for S ₁)
Molecular Weight	: 525.6 (for M ₁); 823.9 (for S ₁)
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >99% by HPLC (75% Virginiamycin M ₁ , 20% Virginiamycin S ₁ , 5% Other minor analogues)
Long Term Storage	: -20°C
Solubility	: Soluble in DMF or DMSO. Limited solubility in ethanol and methanol. Poor water solubility.

Application Notes

Virginiamycin complex is defined as a mixture of 75% ostreogrycin A (virginiamycin M₁) and 25% virginiamycin S₁, together with the less abundant S analogues. As the two major components have quite different solubilities, these proportions are not readily achieved or used. BioAustralis has isolated and re-combined the individual components to provide the defined components of virginiamycin complex. The composition of the complex is important as Virginiamycin S₁ acts a synergist, binding to the conformational change of the peptidyl transferase centre of the 50S ribosome induced by ostreogrycin A.

References

1. The structures of the minor components of virginiamycin S. Vanderhaeghe, H. et al., Tet. Lett. 1971, 2687.
2. Virginiamycin: nomenclature. Crooy P. and De Neys R. J. Antibiot. 1972, 25, 371.
3. A new species of Streptomyces producing virginiamycin family antibiotics. Ogata, K. et al., J. Antibiot. 1978, 31, 1313.