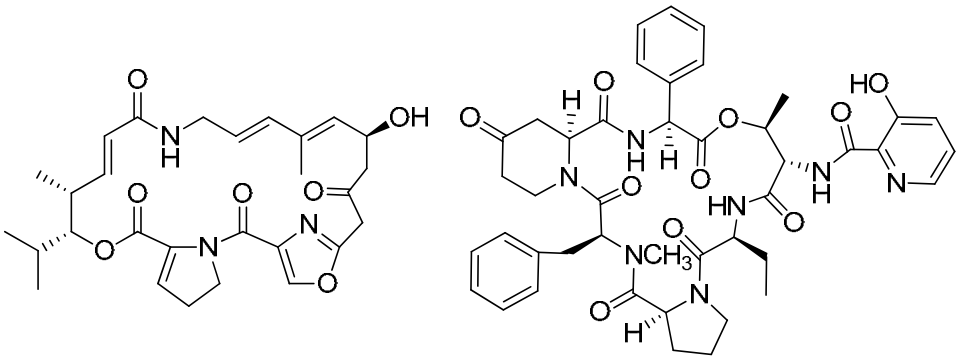
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Virginiamycin complex

Code: **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	:	**$C_{28}H_{35}N_3O_7$ (for M1), $C_{43}H_{49}N_7O_{10}$ (for S1)**
Molecular Weight	:	**1349.5**
Source	:	***Streptomyces* sp.**
Appearance	:	**White solid**
Purity	:	**>99% by HPLC (75% Virginamycin M1, 20% Virginiamycin S1, 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 (virginamycin 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.

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