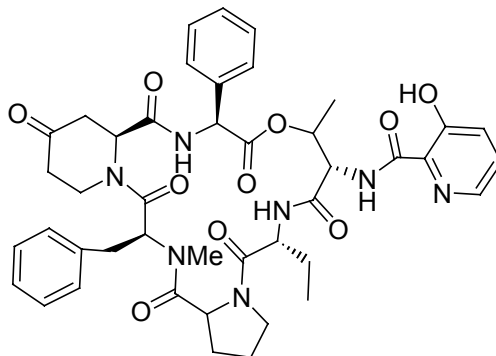


## Virginiamycin S<sub>1</sub>

Code: **BIA-V1152**

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



Synonyms : **Staphylomycin S, PA 114B2, Antibiotic 899, Antibiotic PA 114B2, Antibiotic 1745Z3B, Factor S**

## Specifications

CAS # : **23152-29-6**  
Molecular Formula : **C<sub>43</sub>H<sub>49</sub>N<sub>7</sub>O<sub>10</sub>**  
Molecular Weight : **823.9**  
Source : ***Streptomyces* sp. MST-AS4173**  
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 S<sub>1</sub> is one of a family of depsipeptide antibiotic co-produced with ostreogrycin A and used as a synergistic mixture. Virginiamycin S<sub>1</sub>, also known as Staphylomycin S and Factor S, among other synonyms, was discovered independently and named by several groups leading to considerable confusion in the literature. Virginiamycin S<sub>1</sub> acts as a synergist binding to the conformational change in the peptidyl transferase centre of the 50S ribosome induced by ostreogrycin A. Virginiamycin S<sub>1</sub> differs from virginiamycin B in lacking the dimethylamino moiety on the phenyl ring.

## 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.