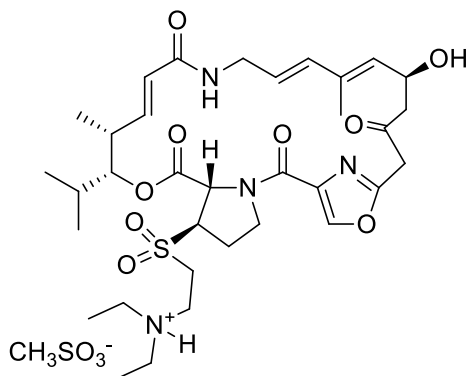


Dalfopristin mesylate

Code No.: **BIA-D1355**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 112362-50-2
Molecular Formula	: C ₃₅ H ₅₄ N ₄ O ₁₂ S ₂
Molecular Weight	: 787
Source	: Semi-synthetic
Appearance	: White to yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Dalfopristin is a semi-synthetic analogue of ostreogrycin A (virginiamycin M, pristinamycin IIA, streptogramin A) formed by addition of diethylaminoethylthiol to the 2-pyrroline group of ostreogrycin, followed by oxidation to the sulfone. The structural changes provide a more hydrophobic compound with a readily ionisable group for generating a salt. Dalfopristin is used commercially in synergistic combination with quinupristin (70:30). There is little published data on the synthesis, biological or antibiotic activity of dalfopristin alone, however the combination product is highly effective, including activity against antibiotic resistant strains.

References

1. Quinupristin/dalfopristin (RP 59500): A new streptogramin antibiotic. Chant C. et al., Ann. Pharm. 1995, 29,1022.
2. Quinupristin/dalfopristin: spectrum of activity, pharmacokinetics, and initial chemical experience. Low D. Microb. Drug Resist. 1995, 1, 223.
3. Quinupristin/dalfopristin: a therapeutic review. Allington D.R. & Rivey M.P. Clin. Ther. 2001, 23, 24.