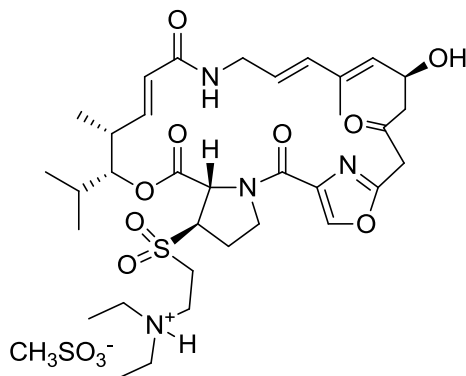


## Dalfopristin mesylate

Code No.: **BIA-D1355**

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



Synonyms :

### Specifications

CAS #	:	<b>112362-50-2</b>
Molecular Formula	:	<b>C<sub>35</sub>H<sub>54</sub>N<sub>4</sub>O<sub>12</sub>S<sub>2</sub></b>
Molecular Weight	:	<b>787.0</b>
Source	:	<b>Semi-synthetic</b>
Appearance	:	<b>White to yellow solid</b>
Purity	:	<b>&gt;98% by HPLC</b>
Long Term Storage	:	<b>-20°C</b>
Solubility	:	<b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</b>

### 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.

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