

Dalfopristin Mesylate PRODUCT DATA SHEET

issue date 01/06/2020

Product Name: Dalfopristin Mesylate

Product Number: D034

CAS Number: 112362-50-2

Molecular Formula: $C_{35}H_{54}N_4O_{12}S_2$

Molecular Weight: 787.0

Appearance: White to yellow solid

Storage Conditions: -20°C

Description: 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.

Dalfopristin is soluble in ethanol, methanol, DMF and DMSO.

References: Quinupristin/dalfopristin (RP 59500): A new streptogramin antibiotic. Chant C.

et al. Ann. Pharm. 1995, 29,1022.

Quinupristin/dalfopristin: spectrum of activity, pharmacokinetics, and initial

chemical experience. Low D. Microb. Drug Resist. 1995, 1, 223.

Quinupristin/dalfopristin: a therapeutic review. Allington D.R. & Rivey M.P. Clin.

Ther. 2001, 23, 24.

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