# PRODUCT INFORMATION

## Parvodicin $C_2$

*Item No. 32542*

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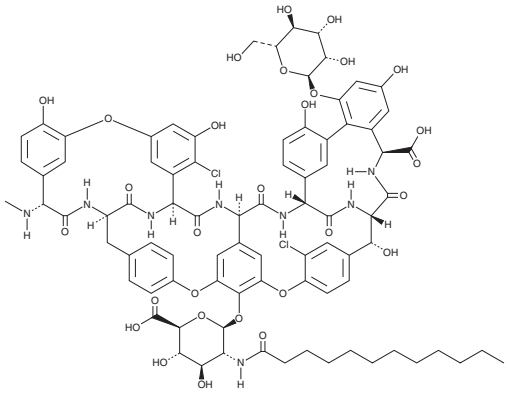
|---|---|
| **CAS Registry No.:** | 110882-85-4 |
| **Formal Name:** | 5,31-dichloro-7-demethyl-64-O-demethyl-19-deoxy-56-O-[2-deoxy-2-[(1-oxododecyl)amino]-β-D-glucopyranuronosyl]-42-O-α-D-mannopyranosyl-$N^{15}$-methyl-ristomycin A aglycone |
| **Synonym:** | Antibiotic A40926 $B_1$ |
| **MF:** | $C_{83}H_{88}Cl_2N_8O_{29}$ |
| **FW:** | 1,732.5 |
| **Purity:** | ≥90% |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |
| **Item Origin:** | Synthetic |



*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Parvodicin $C_2$ is supplied as a crystalline solid. A stock solution may be made by dissolving the parvodicin $C_2$ in the solvent of choice, which should be purged with an inert gas. Parvodicin $C_2$ is soluble in the organic solvent DMSO at a concentration of approximately 10 mg/ml.

Parvodicin $C_2$ is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, parvodicin $C_2$ should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Parvodicin $C_2$ has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Parvodicin $C_2$ is a glycopeptide antibiotic originally isolated from *A. parvosata* and a component of parvodicin complex (Item No. 24036).[1] It is also a component of the A40926 antibiotic complex, which has been used as a precursor in the synthesis of the antibiotic dalbavancin (Item No. 21161).[2] Parvodicin $C_2$ is active against methicillin-sensitive strains of *S. aureus*, *S. epidermidis*, and *S. saprophyticus* (MICs = 0.4-12.5 µg/ml), as well as methicillin-resistant strains of *S. aureus*, *S. hemolyticus*, and *E. faecalis* (MICs = 0.2-50 µg/ml).[1]

### References


1. Christensen, S.B., Allaudeen, H.S., Burke, M.R., *et al.* Parvodicin, a novel glycopeptide from a new species, *Actinomadura parvosata*: Discovery, taxonomy, activity and structure elucidation. *J. Antibiot. (Tokyo)* **40(7)**, 970-990 (1987).
2. Jovetic, S., Feroggio, M., Marinelli, F., *et al.* Factors influencing cell fatty acid composition and A40926 antibiotic complex production in *Nonomuraea sp.* ATCC 39727. *J. Ind. Microbiol. Biotechnol.* **35(10)**, 1131-1138 (2008).





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