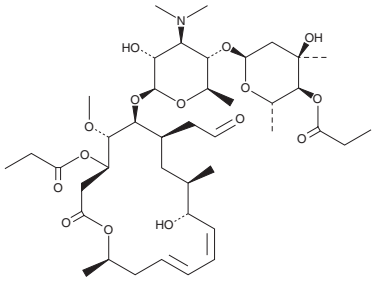
PRODUCT INFORMATION

Midecamycin A_1

Item No. 46200

CAS Registry No.:	35457-80-8
Formal Name:	leucomycin V, 3,4^B-dipropanoate
Synonyms:	NSC 154011, Platenomycin B_1, SF837, YL-704 B_1
MF:	$C_{41}H_{67}NO_{15}$
FW:	814.0
Purity:	≥85%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Midecamycin A_1 is supplied as a solid. A stock solution may be made by dissolving the midecamycin A_1 in the solvent of choice, which should be purged with an inert gas. Midecamycin A_1 is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

Midecamycin A_1 is a macrolide antibiotic and major component of midecamycin isolated from *S. platensis malvinus*.[1-3] It is active against *B. subtilis*, *M. phlei*, and several antibiotic-sensitive or -resistant strains of *S. aureus* (MICs = 0.39, 12.5, and 0.39-3.125 µg/ml, respectively) except for erythromycin-resistant *S. aureus* (MIC = >25 µg/ml).[1]

References

1. Tsuruoka, T., Shomura, T., Ezaki, N., *et al.* Studies on antibiotic SF-837, a new antibiotic. I. The producing microorganism and isolation and characterization of the antibiotic. *J. Antibiot. (Tokyo)* **24(7)**, 452-459 (1971).
2. Hu, M. and Hu, C.-Q. Identification of the components of 16-membered macrolide antibiotics by LC/MS. *Anal. Chim. Acta* **535(1-2)**, 89-99 (2005).
3. Kinumaki, A., Takamori, I., Sugawara, Y., *et al.* Studies on the macrolide antibiotic YL-704 complex. III. The structures of new macrolide antibiotics YL-704 A_1 and B_1. *J. Antibot. (Tokyo)* **27(2)**, 107-116 (1974).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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