

Alamethicin

ALTERNATE NAME:	Antibiotic U-22324 N-acetyl-2-methylalanyl-L-prolyl-2-methylalanyl-L-alanyl-2-methylalanyl-L-alanyl-L-glutaminy-2-methylalanyl-L-valyl-2-methylalanylglycyl-L-leucyl-2-methylalanyl-L-prolyl-L-valyl-2-methylalanyl-2-methylalanyl-L- α -glutamyl-N1-[(1S)-1-benzyl-2-hydroxyethyl]-L-glutamamide B3401-1 1 mg B3401-5 5 mg
MOLECULAR FORMULA:	$C_{92}H_{150}N_{22}O_{25}$
MOLECULAR WEIGHT:	1964.3
CAS NUMBER:	27061-78-5
APPEARANCE:	Solid
PURITY:	$\geq 90\%$
SOLUBILITY:	10 mg/ml DMSO
DESCRIPTION:	Alamethicin is a channel-forming peptide antibiotic peptide belonging to a class of membrane active peptides of fungal origin called peptaibols. It contains an unusual amphiphilic amino acid, 2-aminoisobutyric acid, which strongly induces helical peptide structures and forms voltage-gated ion channels in the lipid bilayers of cell membranes. Alamethicin is often used to study ion channel assembly, voltage gating, and peptide-membrane interactions. Alamethicin is also widely used as an agent to induce various physiological and defense responses in eukaryotic cells including plants.
STORAGE TEMPERATURE:	-20°C. Protect from moisture
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.
RELATED PRODUCTS:	Bacitracin (B1529) Tigecycline (1956) Gramicidin A (B2967) Kirromycin (B1236) Colistin Sulfate (9696)
DISCLAIMER:	<i>FOR RESEARCH USE ONLY! Not to be used on humans.</i>