

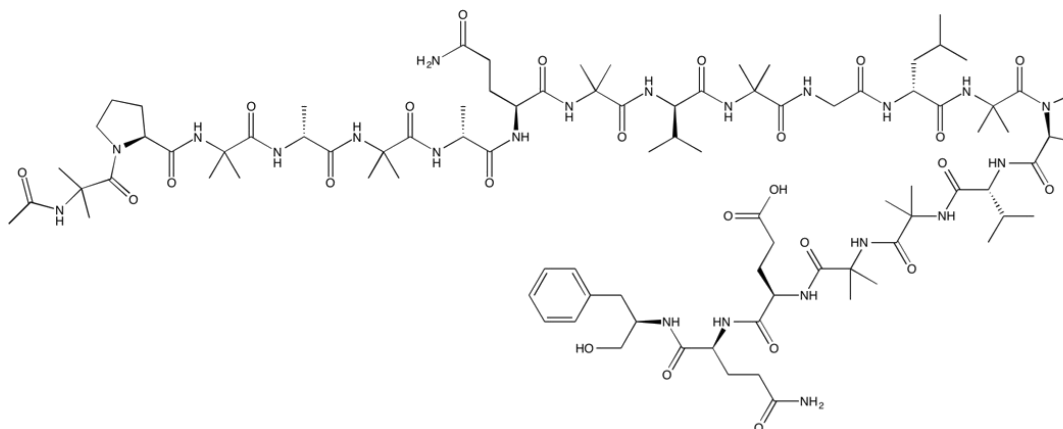
Catalog # 10-2055

Alamethicin

CAS# 27061-78-5

U-22324

Lot # X101822



A membrane permeabilizing, pore-forming agent.¹ Applications include: [³²P] incorporation into phosphatidylinositols², permeabilization of sarcoplasmic reticulum vesicles³ and mitochondria⁴ and induction of lipid vesicle fusion.

- 1) Woolley *et al.* (2007), *Channel-forming activity of alamethicin: effects of covalent tethering*; *Biodivers.*, **4** 1323
- 2) Quist *et al.* (1989), *Regulation of polyphosphoinositide synthesis in cardiac membranes*; *Arch. Biochem. Biophys.*, **271** 21
- 3) Nakagawa *et al.* (1986), *Adenylate cyclase in sarcoplasmic reticulum of skeletal muscle: distribution orientation and regulation*; *J. Cyclic Nuc. Prot. Phosphor. Res.*, **11** 237
- 4) Korge *et al.* (2016), *Reactive oxygen species production in cardiac mitochondria after complex I inhibition: Modulation by substrate-dependent regulation of the NADH/NAD(+) ratio*; *Free Radic. Biol. Med.*, **96** 22

PHYSICAL DATA

Molecular Weight:	1964.31
Molecular Formula:	C ₉₂ H ₁₅₀ N ₂₂ O ₂₅
Purity:	98% by TLC – Mixture of alamethicin homologs NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml), or Methanol (up to 10 mg/ml)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or methanol may be stored at -20°C for up to 3 months.

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