

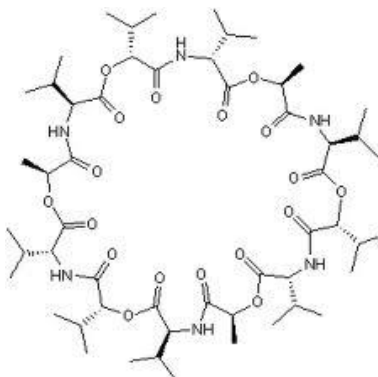
Catalog # 10-2112

Valinomycin

CAS# 2001-95-8

Cyclo(L-Val-D-Hylva-D-Val-L-Lac)₃

Lot # X101732



Valinomycin is a selective K⁺ ionophore capable of transporting potassium ions through lipid membranes.¹ It can induce apoptosis in cells by causing a rapid loss of mitochondrial membrane potential via potassium efflux.^{2,3}

- 1) Pressman, (1976) *Biological applications of ionophores*; Annu.Rev.Biochem. **45** 501
- 2) Furlong *et al.*, (1998) *Induction of apoptosis by valinomycin: mitochondrial permeability transition causes intracellular acidification* Cell Death Diff. **5** 214
- 3) Inai *et al.* (1997) *Valinomycin induces apoptosis of ascites hepatoma cells (AH-130) in relation to mitochondrial membrane potential*; Cell Struc.Funct. **22** 555

PHYSICAL DATA

Molecular Weight:	1111.32
Molecular Formula:	C ₅₄ H ₉₀ N ₆ O ₁₈
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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