

DATA SHEET

Product Name: Valinomycin

Catalog #: CV-1017

Alt: CAS # 2001-95-8; Cyclo(D- α -hydroxyisovaleryl-D-valyl-L-lactoyl-L-valyl-D- α -hydroxyisovaleryl-D-valyl-L-lactoyl-L-valyl-L-valyl-D- α -hydroxyisovaleryl-D-valyl-L-lactoyl-L-valyl)

Molecular Mass: 1111.3

Analysis: >98% (HPLC); NMR (conforms)

Supplied As: White powder

Resuspension: May be dissolved in DMSO (25 mg/ml); or water (25 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 2 months.

Description: Selective K⁺ ionophore. Induces the release of cytochrome c from mitochondria without inducing permeability transition¹. Induces mitochondrial swelling at concentrations as low as 1 nM². Induce K⁺ flow across natural and synthetic lipid vesicles³.

References:

1. Yamada, A., et al., (2009) Mol. Cell. Proteomics., 8 : 1265
2. Lofrumento, D.D., et al., (2011) Apoptosis., 16 : 1004
3. Paxton, W.F., et al., (2017) Colloids Surf. B. Biointerfaces, 159 : 268

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