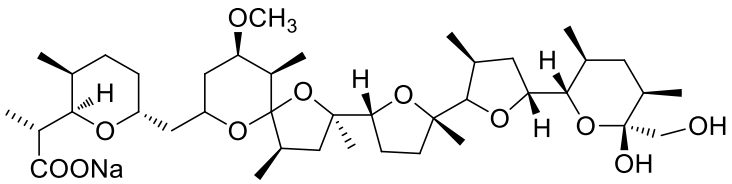
Catalog # 10-2089

Nigericin Na

CAS# 28643-80-3

Antibiotic K178, Antibiotic X-464, Azalomycin M, PolyetherinA

Lot # X102145



Polyether ionophore which disrupts membrane potential and stimulates ATPase activity in mitochondria. Induces apoptosis resulting from intracellular acidification. Ion selectivity is $K^+ > Rb^+ > Cs^+ >> Na^+$. Cell permeable.

1) Akhmedov *et al*. (2010), *Mitochondrial matrix pH controls oxidative phosphorylation and metabolism-secretion coupling in INS-1E clonal beta cells*; FASEB J., **24** 4613
2) Gong *et al*. (2010), *chemical probing reveals insights into the signaling mechanism of inflammasome activation*; Cell Res., **20** 1289

PHYSICAL DATA

Molecular Weight:	746.96
Molecular Formula:	$C_{40}H_{67}O_{11}Na$
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 20 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months

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