

Nigericin Sodium Salt

Cat. # F3200-5, F3200-25

Also Known as:	Antibiotic K178
Formula:	$C_{40}H_{67}NaO_{11}$
MW:	746.94 g/mol
CAS No.:	28643-80-3
Source:	<i>Streptomyces hygroscopicus</i>
Form:	Powder
Solubility:	Soluble in Ethanol up to 25 mg/mL; <3 mg/mL in DMSO. Insoluble in water. To achieve better solubility, warm the solution at 37 °C and sonicate in an ultrasonic water bath.
Preparation of Stocks in Ethanol:	5 mg/mL = 6.69 mM 25 mg/mL = 33.47 mM
Quality Assurance:	>95% purity assayed by NMR.
Description:	Nigericin sodium salt is an antibiotic derived from <i>Streptomyces hygroscopicus</i> . Functions as an H ⁺ , K ⁺ , and Pb ²⁺ ionophore. Disrupts mitochondrial membrane potential and activates the NLRP3 inflammasome to induce inflammation.
Storage:	Eligible for room temperature shipping. Store at -20°C upon receiving.
Literature:	1. Eytan et al., J. Biol. Chem., 1990,22, 12949