Nonactin

Monovalent cation ionophore

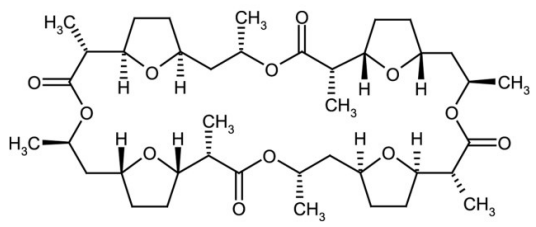
Macrotetrolide antibiotic. Monovalent cation ionophore with high selectivity for ammonium and potassium. Specifically inhibits the processing of cytoplasmic precursor proteins destined for the mitochondria. Inhibits the effects on P170 glycoprotein-mediated efflux of chemotherapeutic agents in multidrug resistant (MDR) cancer cells.

Citations: 7 View Online »

Ordering Information Order Online »

ALX-450-008-M005	5mg
ALX-450-008-M025	25mg

Manuals, SDS & CofA View Online »


H3C
CH3
O
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O
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O
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H
H
H
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CH3
CH3
CH3
CH3
H3C

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from moisture.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Polynactin, Werramycin A
Appearance	White to off-white crystalline solid.
CAS	6833-84-7
Formula	$C_{40}H_{64}O_{12}$
MI	**14:** 6675
MW	736.9
Purity	≥98% (TLC) (Total homologs)
Purity Detail	Mixture of two homologs (~80% nonactin and ~20% monactin)
RTECS	RH1685000
Solubility	Soluble in DMSO (10mg/ml), dichloromethane (10mg/ml), methanol, 100% ethanol; insoluble in water.
Source	Isolated from *Streptomyces griseus*.

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