Nigericin . sodium salt

Potassium ionophore

Nigericin is an antibiotic isolated *Streptomyces hygroscopicus* that acts as an H^+, K^+, Na^+, Pb^{2+} ionophore. Similarly to Valinomycin (Prod. No. BML-KC140), Nigericin is most commonly an antiporter of H^+ and K^+ across biological membranes. Nigericin stimulates Ca^{2+} release from mitochondrial stores by disruption of membrane potential. Nigericin also activates NALP3 inflammasome and induces the release of IL-1β.

Citations: 26 View Online »

Ordering Information

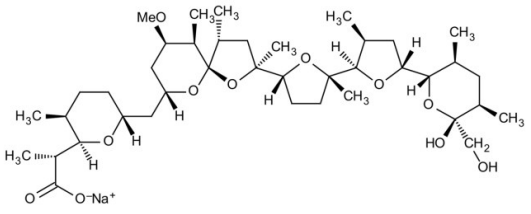
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BML-CA421-0005	5mg

Manuals, SDS & CofA

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- Potassium ionophore used to disrupt intracellular $H^+$and K^+ levels
- Compound used to alter cell volume, membrane potential, and pH
- NALP3 inflammasome activator


MeO
CH_3 CH_3
H_3C
CH_3
H
H
CH_3
H_3C
O
O
O
O
H
H
CH_3
H
O
CH_3
H_3C
O
H
HO
CH_2
H_3C
H
OH
O
O^-Na^+


Nigericin . sodiu
Cat. No.: BML-CA42
Lot No.: 02102215
Storage: -20°C
5 mg
MW 746.9
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Antibiotic K 178
Appearance	White to off-white solid.
CAS	28643-80-3; 28380-24-7
Couple Target	Potassium
Couple Type	Activator
Formula	$C_{40}H_{67}O_{11}$. Na
Identity	Identity determined by NMR.
MI	**14:** 6541
MW	746.9
Purity	≥98% (HPLC, TLC)
Solubility	Soluble in dichloromethane (10mg/ml), DMSO (10mg/ml, heating may be required), ethyl acetate, 100% ethanol (5mg/ml), and 100% methanol (10mg/ml).
Source	*Streptomyces hygroscopicus*

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