Neomycin . sulfate

Inhibitor of PLC and PLD

Aminoglycoside antibiotic that inhibits translation by binding to the small subunit of prokaryotic ribosomes. Inhibitor of phospholipase C (PLC; IC_{50} =1-10µM) due to binding to inositol phospholipids. Neomycin inhibits phosphatidylcholine-phospholipase D activity (IC_{50}=65µM). Blocks voltage sensitive Ca^{2+} channels without affecting Na^{+}/Ca^{2+} antiporters in nerve cells. Induces PLA2 activation in human platelets.

Citations: 16 View Online »

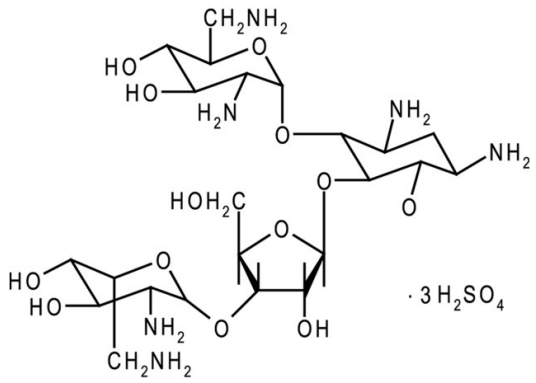
Ordering Information

Order Online »

ALX-380-035-G025	25g

Manuals, SDS & CofA

View Online »


CH2NH2
HO
HO
H2N
O
NH2
NH2
O
O
HOH2C
O
HO
HO
O
NH2
O
OH
CH2NH2
· 3 H2SO4

Handling & Storage

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

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	White to off-white solid.
CAS	1405-10-3
Couple Target	Calcium channel, PLC, PLD
Couple Type	Blocker, Inhibitor
Formula	$C_{23}H_{46}N_6O_{13} \cdot 3H_2SO_4$
MI	**14:** 6454
MW	614.7 . 294.2
Purity	≥90% (TLC)
RTECS	QP4375000
Solubility	Soluble in water (10mg/ml).

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