

Neomycin Sulfate

Product Information

Product Name	Cat#	Size
Neomycin Sulfate	60207ES25	25 g
	60207ES60	100 g

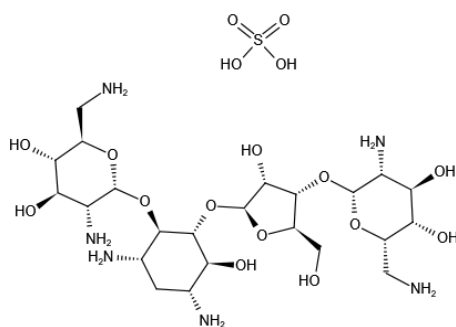
Product Description

Neomycin sulfate, an aminoglycoside antibiotic, exerts antibacterial activity through irreversible binding of the nuclear 30S and 50S ribosomal subunit, thereby blocking bacterial protein synthesis. Neomycin sulfate inhibits PLC (Phospholipase C) via binding to inositol phospholipids. It also inhibits phosphatidylcholine-PLD activity and induces Ca^{2+} mobilization and PLA2 activation in human platelets. Neomycin sulfate inhibits DNA degradation induced by DNase I.

Product Properties

Synonyms	Neomycin Sulfate
CAS#	1405-10-3
Formula	$\text{C}_{23}\text{H}_{46}\text{N}_6\text{O}_{13} \cdot 3\text{H}_2\text{SO}_4$
Molecular Weight	908.88
Appearance	White powder
Grade	USP
Potency (Anhydrous)	$\geq 600 \mu\text{g}/\text{mg}$
Solubility	Soluble in water: $\geq 200 \text{ mg}/\text{mL}$

Structure



Shipping and Storage

The product is shipped with ice pack and can be stored at 2-8°C for 2 years.

Cautions

1. The solution should not be autoclaved.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.