



Neomycin Sulfate

Product description

Neomycin sulfate from Yeasen is supplied in the form of white powder and is a USP-grade reagent with a solubility of about 200 mg/mL in water. It is an aminoglycoside antibiotic and can inhibit DNA degradation induced by DNase I.

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 Ca²⁺ mobilization and PLA2 activation in human platelets. Neomycin sulfate inhibits DNA degradation induced by DNase I.

Components

Components No.	Name	60207ES25	60207ES60
60207	Neomycin Sulfate	25 g	100 g

Specifications

Synonyms	Neomycin Sulfate
CAS#	1405-10-3
Formula	C ₂₃ H ₄₆ N ₆ O ₁₃ · 3H ₂ SO ₄
Molecular Weight	908.88
Appearance	White powder
Grade	USP
Potency (Anhydrous)	≥ 600 µg/mg
Solubility	Soluble in water: ≥ 200 mg/mL
Structure	

Shipping and Storage

The product is transported and stored at room temperature, with a period of validity of three years.

Notes

1. The solution should not be autoclaved.
2. Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety.
3. For research use only.