

Streptomycin Sulfate, 100g**PG-800S-100g**

widely used in microbiology, cell culture, molecular biology, and pharmaceutical applications for the inhibition of bacterial growth. Streptomycin Sulfate acts by binding to the 30S ribosomal subunit, thereby inhibiting protein synthesis in susceptible bacteria.

Details

Product Name	Streptomycin Sulfate
Chemical Name	Streptomycin Sulfate
Molecular Formula	$C_{42}H_{84}N_{14}O_{36}S_3$
Molecular Weight	1457.38 g/mol
Appearance	White to off-white hygroscopic powder
Odor	Odorless or faint characteristic odor
Purity	≥95% (typical, depending on grade)
CAS Number	3810-74-0
Solubility	Freely soluble in water; practically insoluble in ethanol, acetone, and ether
pH (1% Solution)	4.5–7.0
Storage Condition	Store at 2–8°C in a tightly closed container, protected from moisture and light
Shelf Life	Refer to product label
Grade	Cell Culture Grade / Molecular Biology Grade / Pharmaceutical Grade (as applicable)
Applications / Uses	Antibacterial agent in cell culture media, microbiological research, molecular biology applications, pharmaceutical manufacturing, bacterial susceptibility testing, and laboratory research
Safety	

May cause allergic reactions. Avoid inhalation, ingestion, and contact with skin and eyes. Use appropriate PPE including gloves, lab coat, and safety goggles. Handle in accordance with good laboratory practices. Store in a cool, dry place away from incompatible materials.