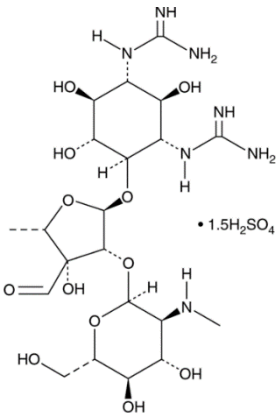
Tribioscience

# Streptomycin (sulfate)

| Catalog | Unit | Catalog | Unit |
|---|---|---|---|
| TBI1735 - 5G | 5 g | TBI1735 - 100G | 100 g |
| TBI1735 - 25G | 25 g | TBI1735 - 250G | 250 g |
| TBI1735 - 50G | 50 g | TBI1735 - 1KG | 1 kg |

## Product Details



**Formal Name:** O-2-deoxy-2-(methylamino)-α-L-glucopyranosyl-(1→2)-O-5-deoxy-3-C-formyl-α-L-lyxofuranosyl-(1→4)-N1,N3-bis(aminoiminomethyl)-D-streptamine
**Molecular Formula:** $C_{21}H_{39}N_7O_{12} \cdot 1.5H_2SO_4$
**Formula Weight:** 728.7
**CAS Number:** 3810-74-0
**Purity:** ≥95%
**Formulation:** A crystalline solid
**Solubility:** Soluble in DMF: 13 mg/ml; DMSO: 2 mg/ml; PBS (pH 7.2): 10 mg/ml
**Storage:** -20°C
**Stability:** ≥ 4 years.

## Description

Streptomycin sulfate is employed in biotechnology for its antibiotic properties, serving primarily to select bacterial strains with resistance genes, inhibit translation initiation for specific protein production, and control bacterial contamination in cultures. It also plays a crucial role in research on ribosomes and has been used in agricultural biotechnology to combat bacterial diseases in plants, particularly in crops like apples, pears, and tomatoes.

## Application Procedures

First dissolved in DMF: 13 mg/ml, DMSO: 2 mg/ml, or PBS (pH 7.2): 10 mg/ml, then diluted to aqueous buffer. Solutions in DMF, DMSO, or PBS may be stored at -20°C for up to 6 months.

## Relative Products

| | |
|---|---|
| TBI1170 | Mitomycin C |
| TBI1345 | E64, Cysteine protease inhibitor |
| TBI1347 | E64d, Cysteine protease inhibitor |
| TBI2064 | Chromomycin A3 |
| TBI2069 | Cytochalasin B |
| TBI2794 | 5-EDU, DNA Click labeling probe |
| TBI2071 | Cytochalasin D |
| TBI1286 | Bestatin, Aminopeptidase inhibitor |
| TBI2140 | Gemcitabline |
| TBI2058 | Aphidicolin, DNA polymerase Inhibitor |

**For research use only.**

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