



## Streptomycin Sulfate

An aminoglycoside antibiotic used as inhibitor of protein synthesis.

Streptomycin sulfate powder is an aminoglycoside antibiotic that binds to bacterial ribosomes, especially the 30S subunit, preventing protein synthesis and resulting in cell death.

Gram-positive and Gram-negative bacteria are among the many types of bacteria that this antibiotic is effective against. Sensitive strains like *Escherichia coli*, *Pseudomonas aeruginosa*, and *Mycobacterium TB* can be inhibited by this antibiotic.

Cat. Number	AS-2019
CAS Number	3810-74-0
Additional CAS	57-92-1
MDL Number	MFCD00037023
PubChem	310280303
Molecular Weight	1457.39 g/mol
Molecular Formula	$(C_{21}H_{39}N_7O_{12})_2 \cdot 3H_2SO_4$
Storage Temperature	4°C
Form and Color	Powder, white to off-white
Assay (on dry basis)	Min. 720 IU/mg
pH	4.5 - 7
Loss on Drying (105 °C)	Max. 7%
Sulphated ash	≤ 1%
methanol	≤ 0.3%
FT-IR Spectrum	Corresponds to reference spectrum.
Synonym	Streptomycin sesquisulfate; Streptomycin A1