



# LKT Laboratories, Inc.

## Streptomycin Sulfate

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### Product Information

Product ID S7769

CAS No. 3810-74-0

#### Chemical Name

Synonym Streptomycin Sesquisulfate, AgriStrep, Vetstrep

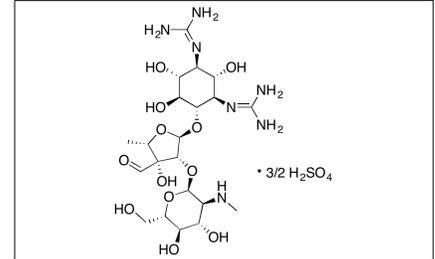
Formula  $C_{21}H_{39}N_7O_{12} \cdot 3/2H_2SO_4$

Formula Wt. 729.63

Melting Point

Purity  $\geq 98\%$

Solubility Soluble in water.



**Bulk quantities available upon request**

Product ID	Size
S7769	25 g
S7769	50 g
S7769	100 g

Store Temp Ambient

Ship Temp Ambient

**Description** Streptomycin is an aminoglycoside originally produced by *Streptomyces*; it was one of the first antibiotics discovered. Streptomycin exhibits antibacterial and anti-parasitic activities, binding 16S rRNA of the 30S bacterial ribosome and inhibiting formyl-methionyl-tRNA binding; this prevents the formation of the initiation complex. Streptomycin was originally used to treat tuberculosis, but has since been used in veterinary medicine to treat gram negative bacterial infection. Streptomycin is also used as a pesticide and fungicide. Streptomycin inhibits mammalian RNA splicing as well.

**References** Ruiz P, Rodríguez-Cano F, Zerolo FJ, et al. Streptomycin as second-line chemotherapy for tuberculosis. *Rev Esp Quimioter.* 2003 Jun;16(2):188-94. PMID: 12973456.

Hertweck M, Hiller R, Mueller MW. Inhibition of nuclear pre-mRNA splicing by antibiotics in vitro. *Eur J Biochem.* 2002 Jan;269(1):175-83. PMID: 11784311.

Zhu M, Burman WJ, Jaresko GS, et al. Population pharmacokinetics of intravenous and intramuscular streptomycin in patients with tuberculosis. *Pharmacotherapy.* 2001 Sep;21(9):1037-45. PMID: 11560193.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.