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• 2HCI • 5H₂O

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Product Information

Fax:

Product ID \$6018 CAS No. 22189-32-8

Chemical Name

Synonym Spectam, Spectinomycin dihydrochloride, Stanilo

Formula C₁₄H₂₄N₂O₇ • 2HCl • 5H₂O

Formula Wt. 495.25

Melting Point ~205-207°C (dec)

Purity ≥603 μg/mg (potency)

Solubility Soluble in water to 100 mM.

methanol, propylene glycol, and formamid. DMSO to 99

and formamid. DMSO to 99 mg/mL, PBS to 10 mg/mL.

Store Temp -20°C Ship Temp Ambient

Description Spectinomycin is an aminocyclitol antibiotic initially produced by Streptomyces. Spectinomycin binds 16S rRNA of the 30S

bacterial ribosome, inhibiting translocation and protein synthesis. Spectinomycin exhibits antibacterial activity and was

originally used to treat gonorrhea, but has since been replaced by newer drugs.

NH O

Bulk quanitites available upon request

 Product ID
 Size

 S6018
 5 g

 S6018
 25 g

References Ilina EN, Malakhova MV, Bodoev IN, et al. Mutation in ribosomal protein S5 leads to spectinomycin resistance in Neisseria gonorrhoeae. Front Microbiol. 2013 Jul 10;4:186. PMID: 23847609.

Kehrenberg C, Schwarz S. Mutations in 16S rRNA and ribosomal protein S5 associated with high-level spectinomycin resistance in Pasteurella multocida. Antimicrob Agents Chemother. 2007 Jun;51(6):2244-6. PMID: 17371823.

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