
Product Data Sheet

Product Name: Streptolysin-O

Cat. No.: GP24734

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Streptolysin O; Thiol-activated cytolysin; slo.		
Amino Acid Sequence	<p>NKQNTASTET TTTNEQPKPE SSELTEKAG QKTDDMLNSN DMIKLAPKEM PLESAEKEEK KSEDKKKSEE DHTEEINDKI YSLNYNELEV LAKNGETIEN FVPKEGVKKA DKFIVIERKK KNINTTPVDI SIIDSVTDRT YPAALQLANK GFTENKPD AV VTKRNPQKIH IDLPGMGDKA TVEVNDPTYA NVSTAI DNLV NQWHDNYS GG NTLPARTQYT ESMVYSKSI EAALNVNSKI LDGTLGIDFK SISKGEKKVM IAAYKQIFYT VSANLPNPA DVFDKSVTFK ELQRKGVSN E APPLFVSNVA YGRTV FVKLE TSSKSN DVEA AFSAALKGTD VKTNGKYSDI LENS SFTAVV LGGDAAEHNK VVTKDFDVIR NVIKDNATFS RKNPAYPISY TSVFLKNNKI AGVNNRTEYV ETTSTEYTSG KINLSHQGAY VAQYEILWDE INYDDKGKEV ITKRRWDNNW YSKTSPFSTV IPLGANSRNI RIMARECTGL AWEWWRKVID ERDVKLSKEI NVNISGSTLS PYGSITYK.</p>		
Solubility	It is recommended to reconstitute the lyophilized Streptolysin-O in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Streptolysin-O protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

Introduction

Streptolysin-O is a sulfhydryl-activated toxin which causes cytolysis by forming pores in cholesterol containing host membranes. After binding to target membranes, the Streptolysin-O protein undergoes a major conformation change, leading to its insertion in the host membrane and creation of an oligomeric pore complex. Cholesterol may be needed for binding to host membranes, membrane insertion and pore formation. Streptolysin-O can be reversibly inactivated by oxidation.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Lyophilized Streptolysin-O although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Streptolysin-O should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Recombinant Streptococcus Pyogenes Streptolysin-O produced in E.coli is a single, non-glycosylated, polypeptide chain containing 538 amino acids and having a molecular mass of 60.1kDa. The Streptolysin-O is purified by proprietary chromatographic techniques.

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