9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Streptolysin-O

Streptolysin-O Streptococcus Pyogenes Recombinant
RCP2278

Product Overview

Name	Streptolysin-O
Description	
Streptolysin-O Streptococcus Pyogenes Recombinant	
Accession (Primary)	P0DF96
Synonyms	
Streptolysin O, Thiol-activated cytolysin, slo.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered white lyophilized powder.	
Formulation	
Streptolysin-O protein was lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.	
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.	
Purity	
Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
NKQNTASTET TTTNEQPKPE SSELTTEKAG QKTDDMLNSN DMIKLAPKEM PLESAEKEEK KSEDKKKSEE DHTEEINDKI YSLNYNELEV LAKNGETIEN FVPKEGVKKA DKFIVIERKK KNINTTPVDI SIIDSVTDRT YPAALQLANK	

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GFTENKPDAV VTKRNPQKIH IDLPGMGDKA TVEVNDPTYA NVSTAIDNLV NQWHDNYSGG NTLPARTQYT ESMVYSKSQI EAALNVNSKI LDGTLGIDFK SISKGEKKVM IAAYKQIFYT VSANLPNNPA DVFDKSVTFK ELQRKGVSNE APPLFVSNVA YGRTVFVKLE TSSKSNDVEA AFSAALKGTD VKTNGKYSDI LENSSFTAVV LGGDAAEHNK VVTKDFDVIR NVIKDNATFS RKNPAYPISY TSVFLKNNKI AGVNNRTEYV ETTSTEYTSG KINLSHQGAY VAQYEILWDE INYDDKGKEV ITKRRWDNNW YSKTSPFSTV IPLGANSRNI RIMARECTGL AWEWWRKVID ERDVKLSKEI NVNISGSTLS PYGSITYK.

Solubility

It is recommended to reconstitute the lyophilized Streptolysin-O in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

Streptolysin-O is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P0DF96)