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Recombinant Streptococcus Pyogenes Streptolysin-O

CLPRO2302
CLPRO2302-2
CLPRO2302-3

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.

Description: 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.

Source: Escherichia Coli.

Presentation: 20 µg (CLPRO2302), 100 µg (CLPRO2302-2), or 1 mg (CLPRO2302-3), sterile filtered white lyophilized powder. Streptolysin-O protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

Solubility: It is recommended to reconstitute the lyophilized Streptolysin-O in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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.

Continued Overleaf.....

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Amino Acid Sequence: NKQNTASTET TTTNEQPKPE SSELTEKAG QKTDDMLNSN DMIKLAPKEM
PLESAEKEEK KSEDKKKSEE DHTEEINDKI YSLNYNELEV LAKNGETIEN FVPKEGVKKA DKFIVIERKK
KNINTTPVDI SIIDSVTDRT YPAALQLANK GFTENKPDV VTKRNPQKIH IDLPGMGDKA
TVEVNDPTYA NVSTADNLV NQWHDNYSGG NTLPARTQYT ESMVYSKSI EAALNVNSKI
LDGTLGIDFK SISKGEKKVM IAAYKQIFYT VSANLPNNPA DVFDKSVTFK ELQRKGSNE
APPLFVSNA YGRTVFVKLE TSSKSNDVEA AFSAALKGTD VKTNGKYSDI LENSSTAVV
LGGDAAEHNK VVTKDFDVIR NVIKDNATFS RKNPAYPISY TSVFLKNNKI AGVNNRTEYV
ETTSTEYTSK KINLSHQGAY VAQYEILWDE INYDDKGKEV ITKRRWDNNW YSKTSPFSTV
IPLGANSRNI RIMARECTGL AWEWWRKVID ERDVKLSKEI NVNISGSTLS PYGSITYK.

Laboratory Reagent For Research Use Only.

JK 05/02/17