

# Active Recombinant Hemolytic streptococcus Streptolysin O

**Cat. No.** slo-001S    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	The product was highly purified from E.coli over-expressing SLO of Group C hemolytic streptococci.
<b>Species</b>	Hemolytic streptococcus
<b>Source</b>	E.coli
<b>Description</b>	Streptolysin O (SLO) is a membrane-damaging extracellular toxin produced by hemolytic streptococci. The membrane-damaging activity is measured by hemolysis of red-blood cells. SLO is easily inactivated in the presence of oxygen but can be reactivated by thiol compounds, so it is also called thiol-activated cytolysin. SLO is produced not only by Group A hemolytic streptococci but also by Group C and Group G strains. The amino acid sequences are highly conserved among them and their homology is over 98%.
<b>Form</b>	1 mg/ml in PBS (-), 1 mM DTT, 50% glycerol, sterilized by filtration
<b>Bio-activity</b>	The specific activity is as high as 1,900,000 hemolytic units (HU) /mg and the product forms a big hole on the cell membrane, which enables the introduction of protein inside the cells in vivo.
<b>AA Sequence</b>	NKQNTANTETTTTNEQPKPESELTEKAGQKMDDMLNSNDMIKLAPKEMPLESAE KEEKKSEDNKKSEEDHTEEINDKIYSLNYNELEVLAKNGETIENFVPKEGVKKADKFI VIERKKKNINTTPVDISIIDSVDRTYPAALQLANKGFTENKPDVVTKRNPQKIHIDL GMGDKATVEVNDPTYANVSTAIIDLNVNQWHDNYSGGNTLPARTQYTESMVYSKSQ

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IEAALNVNSKILDGTLGIDFKSISKGEKKVMIAAYKQIFYTVSANLPNNPADVFDKSVTL  
KELQRKGVSNAPPLFVSNVAYGRTVFKLETSSKSNDVEAAFSAALKGTDVKTNG  
KYSDILENSSFTA VVLGGDAAEHNKVVTKDFDVIRNVIKDNATFSRKNPAYPISYTSV  
FLKNNKIAGVNNRSEYVETTSTEYTSKGKINLSHQGAYVAQYEILWDEINYDDKGKEVI  
TKRRWDNNWYSKTSPFSTVIPLGANSRIRIMARECTGLAWEWWRKVIDERDVKLS  
KEINVNISGSTLSPYGSITYK

<b>Purity</b>	Over 98% by SDS-PAGE
<b>Unit Definition</b>	Definition of 1HU is activation of 50% hemolysis by incubating 3% sheep red blood cells at 37centigrade for 30 min.
<b>Applications</b>	1).Antigen for the measurement of anti-streptolysin O antibody (ASO) (diagnostic reagent). 2).Reagent for membrane pore formation to introduce small-to-macromolecules into living cells.
<b>Notes</b>	Inactivated SLO can be reactivated by thiol reagents such as 20 mM cysteine or 10 mM DTT.
<b>Storage</b>	Store at -20 centigrade(long period, -70 centigrade).
<b>Warning</b>	Handling and storage precautions: Biohazard. Do not use if skin is cut or scratched. Other precautions: Substance not yet fully tested. Protective gloves: compatible chemical-resistant gloves. Eye protection: ansi approved chemical workers goggle. Other protective equipment: eye wash and deluge shower meeting ansi design criteria. Work hygienic practices: wash thoroughly after handling.

## GENE INFORMATION

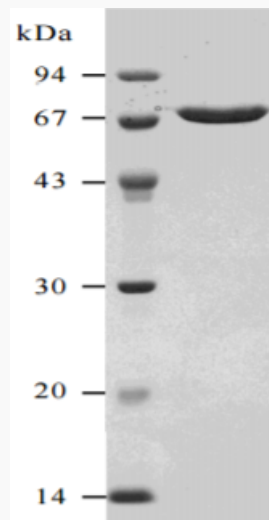
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<b>Gene Name</b>	Streptolysin O precursor [Streptococcus pyogenes M1 GAS]
<b>Official Symbol</b>	slo
<b>Synonyms</b>	Streptolysin O; slo
<b>Gene ID</b>	900490
<b>Protein Refseq</b>	NP_268546.1
<b>UniProt ID</b>	Q54114

**Purified SLO  
analysed by SDS-  
PAGE.**



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