

Datasheet for ABIN2452205  
**Streptolysin O Protein (SLO)**[Go to Product page](#)[2 Images](#)[3 Publications](#)

## Overview

Quantity:	20 µg
Target:	Streptolysin O (SLO)
Origin:	Streptococcus pyogenes
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Characteristics:	<p>Measurement of the activity: Definition of 1HU is activation of 50 % hemolysis using 3 % sheep red blood cells.</p> <p>The product was highly purified from E.coli over-expressing SLO of Group C hemolytic streptococci. 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.</p>
Purity:	> 98 % by SDS-PAGE
Sterility:	Sterile filtered

## Target Details

Target:	Streptolysin O (SLO)
Alternative Name:	Streptolysin O ( <a href="#">SLO Products</a> )

## Target Details

Background:	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 %.
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## Application Details

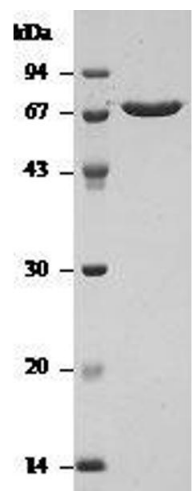
Application Notes:	1) Antigen for the measurement of anti-streptolysin O antibody (ASO) (diagnostic reagent 2) Reagent for membrane pore formation to introduce small-to-macromolecules into living cells
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Reconstitution:	Inactivated SLO can be reactivated by thiol reagents such as 20 mM cysteine or 10 mM DTT (2)
Concentration:	1 mg/mL
Buffer:	PBS, 1 mM DTT, 50 % glycerol
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C/-80 °C
Storage Comment:	-20 C (For long term storage: -70 C)

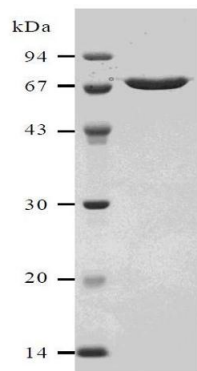
## Publications

Product cited in:	Dabrowski, Olszewski, Piatek, Kur: "Novel thermostable ssDNA-binding proteins from <i>Thermus thermophilus</i> and <i>T. aquaticus</i> -expression and purification." in: <b>Protein expression and purification</b> , Vol. 26, Issue 1, pp. 131-8, (2002) ( <a href="#">PubMed</a> ).
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Western Blotting

Image 1.



Western Blotting

Image 2.

Fig1. Purified SLO analysed by SDS-PAGE.