

Recombinant Streptococcus pneumoniae PLY Protein, His/sumo tagged

Cat. No. PLY-25S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Streptococcus pneumoniae PLY Protein with His/sumo tag was expressed in E. coli.
Species	Streptococcus pneumoniae
Source	E.coli
Description	A cholesterol-dependent toxin that causes cytolysis by forming pores in cholesterol containing host membranes. After binding to target membranes, the protein undergoes a major conformation change, leading to its insertion in the host membrane and formation of an oligomeric pore complex. Cholesterol is required for binding to host membranes, membrane insertion and pore formation; cholesterol binding is mediated by a Thr-Leu pair in the C-terminus. Can be reversibly inactivated by oxidation.
Molecular Mass	The protein has a calculated MW of 65.7 kDa.
AA Sequence	MAHHHHHHMSDSEVNQEAKPEVKPEVKPETHINLKVSDGSSEIFFKIKKTTPLRRLM EAFKRQKGKEMDSLRFYDGIQADQTPEDLDMEDNDIIEAHREQIGGGSEFRTAN KAVNDFILAMNYDKKKLLTHQGESIENRFIKEGNQLPDEFVVIERRKKRSLSTNTSDISV TATNDSRLYPGALLVVDETLLENNPTLLAVDRAPMTYSIDLPGLOSSDSFLQVEDPSN SSVRGAVNDLLAKWHQDYGQVNNVPARMQYEKITAHSMEQLKVKFGSDFEKTGNS LDIDFNSVHSGEKQIQIVNFKQIYYTVSVDVKNPGDVFQDQTVTVEDLKQRGISAERP

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LVYISSVAYGRQVYLKLETTSKSDEVEAAFEALIKGVKVAPQTEWKQILDNTEVKAVIL
GGDPSSGARVVTGKVDMVEDLIQEGSRFTADHPGLPISYTTSLRDNVVATFQNST
DYVETKVTAYRNGDLLLDHSGAYVAQYYITWNELSYDHQGKEVLTPKAWDRNGQD
LTAHFTTSIPLKGNVRNLSVKIRECTGLAWEWWRTVYEKTDLPLVRKRTISIWGTTLY
PQVEDKVEND

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.6 mg/mL

Storage Buffer 20 mM Tris-HCl, 0.5M NaCl, pH 8.0, 10% glycerol

GENE INFORMATION

Gene Name [ply cholesterol-dependent cytolysin pneumolysin \[Streptococcus pneumoniae \]](#)

Official Symbol [ply](#)

Synonyms [ply cholesterol-dependent cytolysin pneumolysin \[Streptococcus pneumoniae \]](#)

Gene ID [66806991](#)

Protein Refseq [WP_001284359](#)

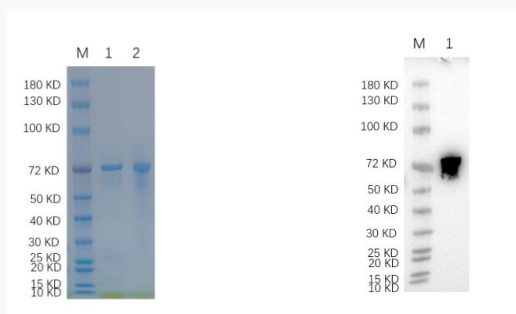
UniProt ID [P11990](#)

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**Reducing 12% SDS-
PAGE (CBB stained)
and WB (Anti-His
Mouse Monoclonal
Antibody) analysis
profile of purified
PLY.**



1. PLY
2. BSA

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