

Recombinant Streptococcus Pneumoniae Serotype 4 PLY Protein (2-471 aa), His-tagged

Cat. No. PLY-1569S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Streptococcus Pneumoniae Serotype 4 (strain ATCC BAA-334/TIGR4) PLY Protein (2-471 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Streptococcus pneumoniae
Source	Yeast
ProteinLength	2-471 aa
Description	Sulfhydryl-activated toxin that causes cytolysis by forming pores in cholesterol containing host mbranes. After binding to target mbranes, the protein undergoes a major conformation change, leading to its insertion in the host mbrane and formation of an oligomeric pore complex. Cholesterol may be required for binding to host mbranes, mbrane insertion and pore formation. Can be reversibly inactivated by oxidation.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	54.8 kDa
AA Sequence	ANKAVNDFILAMNYDKKKLLTHQGESIENRFIKEGNQLPDEFVVIKRRSLSTNTSDI SVTATNDSRLYPGALLVVDETLLENNPTLLAVDRAPMTYSIDLPGGLASSDSFLQVEDP SNSSVRGAVNDLLAKWHQDYGVNVPARMQYEKITAHSMEQLKVKFGSDFEKTG

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NSLDIDFNSVHSGEKQIQIVNFKQIYYTVSVDAVKNP GDVFQDTVTVEDLKQRGISAE
 RPLVYISSVAYGRQVYLKLETTSKSDEVEAAFEALIKGVKVAPQTEWKQILDNTEVKA
 VILGGDPSSGARVVTGKVDMVEDLIQEGSRFTADHPGLPISYTT SFLRDNVVATFQN
 STDYVETKVTAYRNGDLLLDHSGAYVAQYYITWNELSYDHQ GKEVLTPKAWDRNG
 QDLTAHFTTSIPLKGNVRNLSVKIRECTGLAWEWWRTVYEKTD LPLVRKRTISIWGT
 TLYPQVEDKVEND

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

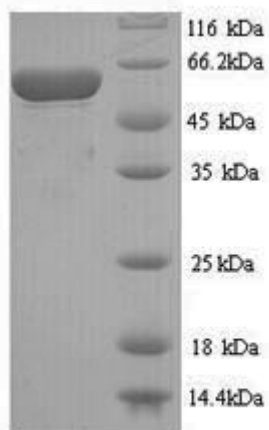
Synonyms ply; Thiol-activated cytolysin;

UniProt ID [P0C2J9](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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