



# Recombinant Streptococcus pneumoniae serotype 4 Pneumolysin (ply)

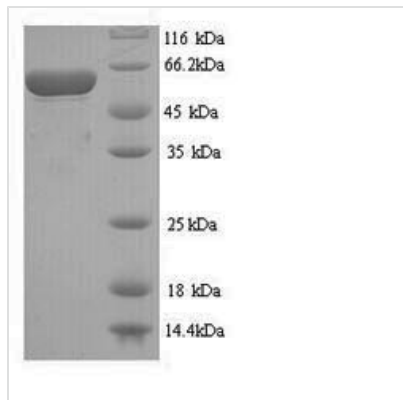
<b>Product Code</b>	CSB-YP314690FMW
<b>Relevance</b>	Sulfhydryl-activated toxin that causes cytolysis by forming pores in cholesterol containing host mbranes. After binding to target mbranes, the protein undergoes a major conformation change, leading to its insertion in the host mbrane and formation 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 .
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P0C2J9
<b>Alias</b>	Thiol-activated cytolysin
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Streptococcus pneumoniae serotype 4 (strain ATCC BAA-334 / TIGR4)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	ANKAVNDFILAMNYDKKKLLTHQGESIENRFIKEGNQLPDEFVVIKRRSLST NTSDISVTATNDSRLYPGALLVDETLLENNPTLLAVDRAPMTYSIDLPGGLASS DSFLQVEDPSNSSVRGAVNDLLAKWHQDYGGVNNVPARMQYKITAHSMEQ LKVKFGSDFEKTGNSLDIDFNSVHSGEKQIQIVNFKQIYYTVSVDVKNPGDVF QDVTVTEDLKQRGISAERPLVYISSVAYGRQVYLKLETTSSKSDEVEAAFEALIK GVKVAPQTEWKQILDNTEVKAVILGGDPSSGARVVTGKVDMVEDLIQEGSRFT ADHPGLPISYTTSLFRDNVAVTFQNSTDYVETKVTAYRNGDLLLDHSGAYVAQ YYITWNELSYDHQGKEVLTPKAWDRNGQDLTAHFTTSIPLKGNVRNLSVKIRE CTGLAWEWWRVTVEKTDLPLVRKRTISIWGTTLYPQVEDKVEND
<b>Lead Time</b>	3-7 business days
<b>Research Area</b>	Others
<b>Source</b>	Yeast
<b>Gene Names</b>	ply
<b>Protein Names</b>	Recommended name: Pneumolysin Alternative name(s): Thiol-activated cytolysin
<b>Expression Region</b>	2-471aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	54.8kDa



## Protein Description

Full Length of Mature Protein

## Image



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

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.