

Pneumolysin Protein, *S. pneumoniae* serotype 4, Recombinant (Avi & His)

General Information

Synonyms: Thiol-activated cytolysin;ply;Pneumolysin

Protein Construction: 2-471 aa

Species: *Streptococcus pneumoniae*

Expression Host: *E. coli*

Accession: P0C2J9

Molecular Weight: 58.7 kDa (predicted)

AA Sequence: ANKAVNDFILAMNYDKKKLLTHQGESIENRFIKEGNQLPDEFVVIERKKRSLSTNTSDISVTATNDSRLYPGALL
VVDETLLENNPTLLAVDRAPMTYSIDLPLGLASSDSFLQVEDPSNSSVRGAVNDLLAKWHQDYGGQVNNV
PARMQYEKITAHSMEQLKVKFGSDFEKTGNSLDIDFNSVHSGEKQIQVNFQIYYTVSVDVAVKNPGDVFQDTV
TVEDLKQRGISAERPLVYISSVAYGRQVYLKLETTSSKDEVEAAFEALIKGVKVPQTEWKQILDNTEVKAVILGGD
PSSGARVVTGKVDMMVEDLIQEGSRFTADHPGLPISYTTSLFRDNVVATFQNSTDYVETKVTAYRNGDLLDHS
GAYVAQYYITWNELSYDHQGEVLTPKAWDRNGQDLTAHFSTIPLKGNVRNLSVKIRECTGLAWEWWRV
YEKTDLPLVRKRTISIWGTTLYPQVEDKVEND

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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