

Recombinant *Streptococcus pneumoniae* Pneumolysin (ply)

Cat No:HR4S0101

For research use only

Overview

Quantity	
Gene Symbol	
Gene ID	
Accession	
Alternative Name	ply, spr1739, Pneumolysin, Thiol-activated cytolysin
Species	<i>Streptococcus pneumoniae</i> (strain ATCC BAA-255 / R6)
Source	Yeast
Description	
Functions	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.
Formulation	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
Solubility	
Appearance	Lyophilized powder
Molecular Weight	
Purity	>85% (SDS-PAGE)
Concentration	
Shipping Condition	
Storage Condition	Store at -20°C/-80°C upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles.