

Recombinant Streptococcus pneumoniae serotype 4 Pneumolysin



Catalog No: #AP72877

Orders: order@signalwayantibody.com

Package Size: #AP72877-1 20ug #AP72877-2 100ug #AP72877-3 1mg

Support: tech@signalwayantibody.com

Description

Product Name	Recombinant Streptococcus pneumoniae serotype 4 Pneumolysin
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-471aaSequence Info:Full Length
Other Names	Thiol-activated cytolysin
Accession No.	P0C2J9
Uniprot	P0C2J9
Calculated MW	54.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	ANKAVNDFILAMNYDKKKLLTHQGESIENRFIKEGNQLPDEFVIERKKRSLSTNTSDISVTATNDSRLYPGALL VVDETLLENNPTLLAVDRAPMTYSIDLPLGLASSDSFLQVEDPSNSSVRGAVNDLLAKWHQDYGQVNNVPARM QYEKITAHSMEQLKVKFGSDFEKTGNLSLDIDFNSVHSGEKQIQIVNFKQIYYTVSVDVAVKNPGDVFQDQDTVTVED LKQRGISAERPLVYISSVAYGRQVYLKLETTSKSDEVEAAFEALIKGVKVPQTEWKILDNTEVKAVILGGDPS SGARVVTGKVDMMVEDLIQEGSRFTADHPGLPISYTTSFRLDNNVATFQNSTDYVETKVTAYRNGDLLLDHSGA YVAQYYITWNELSYDHQKKEVLTPKAWDRNGQDLTAHFTTIPLKGNVRNLSVKIRECTGLAWEWWRVTVYEK TDLPLVRKRTISIWGTTLYPQVEDKVEND
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 .

References

Complete genome sequence of a virulent isolate of Streptococcus pneumoniae.Tettelin H., Nelson K.E., Paulsen I.T., Eisen J.A., Read T.D., Peterson S.N., Heidelberg J.F., DeBoy R.T., Haft D.H., Dodson R.J., Durkin A.S., Gwinn M.L., Kolonay J.F., Nelson W.C., Peterson J.D., Umayam L.A., White O., Salzberg S.L. , Lewis M.R., Radune D., Holtzapple E.K., Khouri H.M., Wolf A.M., Utterback T.R., Hansen C.L., McDonald L.A., Feldblyum T.V., Angiuoli S.V., Dickinson T., Hickey E.K., Holt I.E., Loftus B.J., Yang F., Smith H.O., Venter J.C., Dougherty B.A., Morrison D.A., Hollingshead S.K., Fraser C.M.Science 293:498-506(2001)Research Topic:Others

Note: This product is for in vitro research use only