

# Recombinant Streptococcus pneumoniae serotype 4 Pneumolysin(ply)

Catalog No: #AP70977

Package Size: #AP70977-1 20ug #AP70977-2 100ug #AP70977-3 1mg

## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Product Name          | Recombinant Streptococcus pneumoniae serotype 4 Pneumolysin(ply)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Calculated MW         | 68.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tag Info              | N-terminal 6xHis-SUMO-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Target Sequence       | ANKAVNDFILAMNYDKKKLLTHQGESIENRFIKEGNQLPDEFVIERKKRSLSTNTSDISVTATNDSRLYPGALL<br>VVDETLLENNPTLLAVDRAPMTYSIDLPLGLASSDSFLQVEDPSNSSVRGAVNDLLAKWHQDYGQVNNVPARM<br>QYEKITAHSMEQLKVKFGSDFEKTGNSLDIDFNSVHSGEKQIQIVNFKQIYYTVSVDVAVKNPGDVFQDTVTVED<br>LKQRGISAERPLVYISSVAYGRQVYLKLETTSSKSDVEAAFEALIKGVKVPQTETWKQILDNTEVKAVILGGDPS<br>SGARVVTGKVDMMEDLIQEGSRFTADHPGLPISYTTSLRDNVVATFQNSTDYVETKVTAYRNGDLLLDHSGA<br>YVAQYYITWNELSYDHQGEVLTPKAWDRNGQDLTAHFTTSIPLKGNVRNLSVKIRECTGLAWEWWRVTYEEK<br>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.<br><br>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

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.