

## Perfringolysin O (pfo) Recombinant Protein | pfo recombinant protein

Recombinant Clostridium perfringens Perfringolysin O(pfo)

|                              |                                                                 |
|------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA18654</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|------------------------------|-----------------------------------------------------------------|

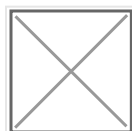
### PRODUCT SYNONYMS

Perfringolysin O (pfo); Recombinant Clostridium perfringens Perfringolysin O(pfo); Perfringolysin O; Theta-toxin; Thiol-activated cytolysin; pfo recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence Positions      | 29-500aa; Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Sequence                | KDITDKNQSI DSGISLSYN RNEVLASNGD KIESFVPKEG KKTGNKFIVV ERQKRSLTTS PVDISIISV<br>NDRTYPGALQ LADKAFVENR PTILMVKRKP ININIDLPLG KGENSIKVDD PTYGKVSGAI DELVSKWNEK<br>YSSTHTLPAR TQYSESMVYS KSQISSALNV NAKVLENSLG VDFNAVANNE KKVIMILAYKQ IFYTVSADLP<br>KNPSDLFDDS VTFNDLKQKG VSNEAPPLMV SNVAYGRTIY VKLETTSSSK DVQAAFKALI KNTDIKNSQQ<br>YKDIYENSSF TAVVLGGDAQ EHNKVVTKDF DEIRKVIKDN ATFSTKNPAY PISYTSVFLK DNSVAAVHNK<br>TDYIETTSTE YSKGKINLDH SGAYVAQFEV AWDEVSYDKE GNEVLTHKTW DGNYQDKTAH YSTVIPLEAN<br>ARNIRIKARE CTGLAWEWWR DWISEYDVPL TNNINVSIWG TTLYPGSSIT YN |
| Species                 | Clostridium perfringens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.                                                                                                                                                                                                                                                                                                                                                      |

### IMAGES



SDS-PAGE

### ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for pfo recombinant protein | Sulfhydryl-activated toxin that causes cytolysis by forming pores in cholesterol containing host membranes. After binding to target membranes, the protein assembles into a pre-pore complex. A conformation change leads to insertion in the host membrane and formation of an oligomeric pore complex. Cholesterol may be required for binding to host cell membranes, membrane insertion and pore formation. Can be reversibly inactivated by oxidation. |
| Product Categories/Family for pfo recombinant protein   | <a href="#">Microbiology</a>                                                                                                                                                                                                                                                                                                                                                                                                                                |

### NCBI AND UNIPROT INFORMATION

|             |          |
|-------------|----------|
| NCBI GI #   | 18309145 |
| NCBI GeneID | 988404   |

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| NCBI Accession #           | <a href="#">NP_561079.1</a>                     |
| NCBI GenBank Nucleotide #  | <a href="#">NC_003366.1</a>                     |
| UniProt Accession #        | <a href="#">POC2E9</a> ; <a href="#">P19995</a> |
| Molecular Weight           | 68.7 kDa                                        |
| NCBI Official Full Name    | perfringolysin O                                |
| NCBI Official Symbol       | pfoA                                            |
| NCBI Protein Information   | perfringolysin O                                |
| UniProt Protein Name       | Perfringolysin O                                |
| UniProt Gene Name          | <b>pfo</b>                                      |
| UniProt Synonym Gene Names | pfoA; pfoR                                      |
| UniProt Entry Name         | TACY_CLOPE                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pfo-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/18654>