

Recombinant Clostridium Perfringens PFO Protein (29-500 aa), His-SUMO-tagged

Cat. No. PFO-2172C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Clostridium Perfringens (strain 13/Type A) PFO Protein (29-500 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Microbiology. Protein Description: Full Length of Mature Protein.
Species	Clostridium Perfringens
Source	E.coli
ProteinLength	29-500 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	68.7 kDa
AA Sequence	KDITDKNQSIDSGISLSYNRNEVLASNGDKIESFVPKEGKKTGNKFIVVERQKRSLT TSPVDISIIDS VNDRTYPGALQLADKAFVENRPTILMVKRKPININIDLPLGLKGNSIKV

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DDPTYGKVS GAIDELVSKWNEKYSSTHTLPARTQYSESMVYSKSQISSALNVNAKVL
 ENSLGVD FNAVANNEKKVMILAYKQIFYTVSADLPKNPSDLFDDSVTFNDLKQKGVS
 NEAPPLMVSNVAYGRTIYVKLETTSSSKDVQA AFKALIKNTDIKNSQQYKDIYENSSF
 TAVVLGGDAQEHNKVVTKDFDEIRKVIKDNATFSTKNPAYPISYTSVFLKDNSVA AVH
 NKTDYIETTSTEYSKGKINLDHSGAYVAQFEVAWDEVSYDKEGNEVLTHKTWDGNY
 QDKTAHYSTVIPLEANARNIRIKARECTGLAWEWWRD VISEYDVPLTNNINVSIWGTT
 LYPGSSITYN

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

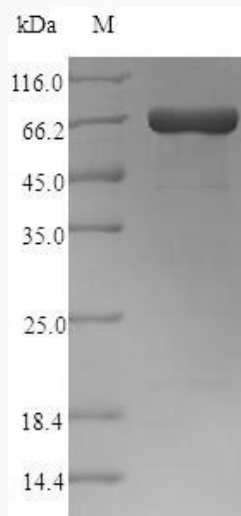
Synonyms pfo; Theta-toxin Thiol-activated cytolysin;

UniProt ID [P0C2E9](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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