

## Phospholipase C Protein, Clostridium perfringens, Recombinant (His)

### General Information

Synonyms:	Phosphatidylcholine cholinephosphohydrolase; Hemolysin; cpa; Phospholipase C; Alpha-toxin; PLC; Lecithinase
Protein Construction:	29-398 aa
Species:	C.perfringens
Expression Host:	E. coli
Accession:	P0C216
Molecular Weight:	48.5 kDa (predicted)
AA Sequence:	WDGKIDGTGTHAMIVTQGVSIENDLSKNEPESVRKNLEILKENMHELQLGSTYPDYDKNAYDLYQDHFWD DTDNNFSKDNSWYLAYSIPDTGESQIRKFSALARYEWQRGNKQATFYLGEMHYFGDIDTPYHPANVTAV DSAGHVKFETFAEERKEQYKINTAGCKTNEFDYADILKNKDFNAWSKEYARGFAKTGKSIYYSHASMSHSWD DWDYAAKVTLANSQKGTAGYIYRFLHDVSEGNDPSVGKNVKELVAYISTSGEK DAGTDDYMYFGIKTKDGKT QEWEMDNP GND FMTGSKDTYTFKLK DENLKIDDIQNMWIRKRKYTAFP DAYK PENIKIIANGKVVVDKDINE WISGNSTYNIK

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Bacterial hemolysins are exotoxins that attack blood cell membranes and cause cell rupture. Constitutes an essential virulence factor in gas gangrene. Binds to eukaryotic membranes where it hydrolyzes both phosphatidylcholine and sphingomyelin. The diacylglycerol produced can activate both the arachidonic acid pathway, leading to modulation of the inflammatory response cascade and thrombosis, and protein kinase C, leading to activation of eukaryotic phospholipases and further membrane damage. Acts on human and mouse erythrocytes, but not on rabbit or horse erythrocytes.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481