

## Phospholipase C Protein, *S. aureus*, Recombinant (His)

### General Information

Synonyms: hlb;Phospholipase C;Beta-toxin;Sphingomyelinase (SMase);Beta-hemolysin;plc

Protein Construction: 35-330 aa

Species: *Staphylococcus aureus*

Expression Host: *P. pastoris* (Yeast)

Accession: P09978

Molecular Weight: 35.7 kDa (predicted)

AA Sequence: ESKKDDTDLKLVSHNVYMLSTVLYPNWGQYKRADLIGQSSYIKNNDVVIFNEAFDNGASDKLLSNVKKEYPY QTPVLGRSQSGWDKTEGSYSSTVAEDGGVAIVSKYPIKEIKI QHVFKSGCGFDNDSNKG FVYTKIEKNGKNVHV IGTHTQSEDSRCGAGHDKIRAEQMKEISDFVKKKNIPKDETVYIGGDLNVNKGTPFKDMLKLNLVNDVLYA GHNSTWDPQSNSIAKYNYPNGKPEHLDYIFTDKDHPKPKLVNEVVTEKPKPVDVYAFYYYYVYNDVDFSDHY PIKAYSK

### 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: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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.

Actual storage temperature shall be subject to the COA.

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. Beta-hemolysin is a phospholipase C with specific activity toward sphingomyelins. Has a high specificity for sphingomyelin, hydrolyzes lysophosphatidylcholine at a much lower rate, but has no activity towards phosphatidylcholine,

phosphatidylethanolamine, or phosphatidylserine.

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

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