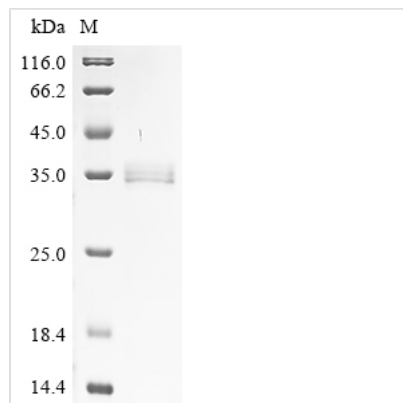




# Recombinant Bacillus cereus 1-phosphatidylinositol phosphodiesterase

<b>Product Code</b>	CSB-YP321220BQJ
<b>Abbreviation</b>	Recombinant 1-phosphatidylinositol phosphodiesterase protein
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P14262
<b>Form</b>	Liquid or Lyophilized powder
<b>Storage Buffer</b>	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.
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bacillus cereus
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	ASSVNELENWSKWMQPIPDISIPLARISIPGTHDSGTFKLQNPIKQVWGMTQEY DFRYQMDHGARIFDIRGRLTDDNTIVLHHGPLYLYVTLHEFINEAKQFLKDNPS ETIIMSLKKEYEDMKGAEFSSTFEKKYFVDPIFLKTEGNIKLGDARGKIVLLK RYSGSNEPGGYNNFYWPDNETFTTTVNQANVTVDQKYKVSYDEKVKSIKDT MDETMNNSDLNHLIYINFTSLSSGGTAWNSPYYYASYINPEIANYIKQKNPARV GWVIQDYINEKWSPLLYQEVIRANKSLIKE
<b>Research Area</b>	Others
<b>Source</b>	Yeast
<b>Target Names</b>	N/A
<b>Expression Region</b>	32-329aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal 6xHis-tagged
<b>Mol. Weight</b>	36.0 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



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

## Description

The recombinant *Bacillus cereus* 1-phosphatidylinositol phosphodiesterase is produced in yeast using an expression construct that encodes the full-length mature 1-phosphatidylinositol phosphodiesterase, comprising amino acids 32 to 329. A C-terminal 6xHis-tag is included in the construct, enabling efficient purification and detection of the recombinant 1-phosphatidylinositol phosphodiesterase. The purity of the recombinant 1-phosphatidylinositol phosphodiesterase exceeds 90%, as confirmed by SDS-PAGE analysis. On the gel, this protein migrates as a band with an approximate molecular weight of 36 kDa.

The *Bacillus cereus* 1-phosphatidylinositol phosphodiesterase mainly catalyzes the hydrolysis of 1-phosphatidylinositol (PI) molecules to produce inositol phosphate and diacylglycerol (DAG). It plays a crucial role in lipid metabolism, cellular signaling, and modulation of intracellular processes.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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