



Recombinant pdhB protein from *Geobacillus stearothermophilus*

Cat. No.: LBGF-0626-G15

This product is for research use only and is not intended for diagnostic use.

BASIC INFORMATION

Product Overview

Our Recombinant pdhB protein is sourced from *Geobacillus stearothermophilus* and expressed via specialized heterologous hosts (*E. coli*, yeast, or mammalian cells) to achieve native-like conformation. We prioritize exceptional purity and low endotoxin levels to guarantee reliable performance in your experimental workflows. Detailed quality metrics, including purity and specific biological activity (where available), can be found on the lot-specific Certificate of Analysis (CoA).

Target

pdhB protein

Source Organism

Geobacillus stearothermophilus; *Bacillus stearothermophilus*

Gene/Protein Name

pdhB

Protein Sequence

AQMTMVQAI TDALRIELKN DPNVLIFGED VGVNGGVFRA TEGLQAEFGE DRVFDTPLA
E
SGIGGLAIGL ALQGFRPVPE IQFFGFVYEV MDSICGQMAR IRYRTGGRYH MPITIRSPFG
GGVHTPELHS DSLEGLVAQQ PGLKVVIPST PYDAKGLLIS AIRDNDPVIF LEHLKLYRSF
RQEVPEGEYT IPIGKADIKR EGKDITIIAY GAMVHESLKA AAELEKEGIS AEVVDLRTVQ
PLDIETIIGS VEKTGRAIVV QEAQRQAGIA ANVVAEINER AILSLEAPVL RVAAPDTVYP
FAQAESVWLP NFKDVIETAK KVMNF

Protein Region	Full Length
UniProt Accession Number	P21874
Biological Activity	Not Test
Applications	ELISA, Western Blot (WB), Immunoprecipitation (IP), Positive Control. Note: Optimal dilutions/concentrations should be determined by the end user.

CHEMICAL & PHYSICAL PROPERTIES

Tag&Position	Determined during the production process by default. If a specific tag is required, please notify us, and its development will be prioritized.
Purity	≥85% (SDS-PAGE)
Formulation	1. Liquid Form: Supplied in a default Tris/PBS-based storage buffer supplemented with 5% -50% glycerol. 2. Lyophilized Form: Lyophilized from a Tris/PBS-based pre-lyophilization buffer (pH 8.0) containing 6% Trehalose as a lyoprotectant.
Format	Liquid or Lyophilized powder

HANDLING & STORAGE

Stability&Storage	1. Lyophilized Powder: Stored at -20°C to -80°C, the product is stable for 12 months from the date of receipt. Upon reconstitution, it is stable for up to 1 week at 2-8°C or 3 months at -20°C to -80°C. 2. Liquid Form: Stored at -20°C to -80°C, the product is stable for 6 to 12 months (avoid repeated freeze-thaw cycles). Aliquot upon arrival to prevent degradation.
Reconstitution	For Lyophilized Powder. Always centrifuge tubes before opening to bring the contents to the bottom. Do not vortex. 1. Reconstitute in sterile ddH ₂ O to a stock concentration of 0.1-1.0 mg/mL. 2. Dissolve the protein by gentle pipetting up and down or by inverting the tube. 3. Allow the solution to stand at room temperature for at least 20 minutes to ensure complete reconstitution. 4. Aliquot the reconstituted solution into working volumes and store at -20°C for long-term storage. Avoid repeated freeze-thaw cycles.
Shipping	Lyophilized Form: Shipped at ambient temperature (or with blue ice). Liquid Form: Shipped with blue ice (or on dry ice, depending on stability).

Note: Upon receipt, please store the product immediately under the recommended conditions specified on the Certificate of Analysis (CoA).

Lead Time

In-stock Items: Ships within 1-2 business days.

Out-of-stock / Custom Orders: 2-4 weeks (Our team will confirm the exact timeline upon order placement).

This protein can be fully tailored to your specifications. Our platform directly supports expression host transitions, tag removal, and scalable bulk production.
