



Recombinant gap protein from *Lactobacillus delbrueckii subsp. bulgaricus*; Full Length

Cat. No.: LBGF-0626-G575

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

BASIC INFORMATION

Product Overview

Our Recombinant gap protein is sourced from *Lactobacillus delbrueckii subsp. bulgaricus* 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	gap protein
Source Organism	<i>Lactobacillus delbrueckii subsp. bulgaricus</i>
Gene/Protein Name	gap
Protein Sequence	MTVKIGINGFGRIGRLAFRRIMDLGEETKDIEVVAINDLTPAMLAHLLKYDSTHGTFDHEVS ATEDSLVVDGKKYRVYAEPQAQNPWVKNDGVDFVLECTGFYTSKAKSQAHLDAKRV LISAPAGNDLKTIVYSVNQDTLTADDTIVSAGSCTTNSLAPMANALNKEFGIQVGTMTTIHAY TATQKVLDPDRGNNFRNARAAAENIIPHSTGAAKAIGLVLPELNGKLDGHAQRVPVKDG SETELVTILDKKVTAEEVNAAMKKYESPSFAYNADQIVSTDVLGMTAGSIFDPTQTQVITAG DKQLVKTVAWYDNEYSFTCMVRTLLHFATL
Subcellular Localization	Cytoplasm
Protein Region	Full Length
Sequence Range	1-338aa

UniProt Accession Number O32755

Biological Activity Not Test

Protein Family Glyceraldehyde-3-phosphate dehydrogenase family

Applications ELISA, Western Blot (WB), Immunoprecipitation (IP), Positive Control.
Note: Optimal dilutions/concentrations should be determined by the end user.

CHEMICAL & PHYSICAL PROPERTIES

Molecular Weight 44.0 kDa

Tag&Position N-terminal 10xHis-tagged and C-terminal Myc-tagged

Purity ≥90% (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 ddH₂O 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.
