



Recombinant gap protein from *Lactococcus lactis*

Cat. No.: LBGF-0626-G362

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 *Lactococcus lactis* 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

Lactococcus lactis subsp. lactis; *Streptococcus lactis* strain IL1403

Gene/Protein Name

gap

Protein Sequence

MVVKVGINGF GRIGRLALRR IQEVEGVEVA HINDLTDPM LAHLLKYDTT QGRFKGTVE
V

KEDGFDVNGK FVKVTAERNP EDIQWADSGV EIVLEATGFF ATKEKAEKHL HPGGAKKV
LI

TAPGGNDVKT VVFNTNHTIL DGTETVISAG SCTTNSLAPM ADALNKNFGV KGGTMTTV
HS

YTGDQMTLDG PHRGGDFRRA RAAAENIVPA SSGAAKAIGL VPELSGLMK GHAQRVS
TPT

GSITELVTVL EKHVTVDIN EAMKAAADES FGYNVDEIVS SDIIGMAYGS LFDATLTEVT

DLKDGGQLVK TAAWYDNEMS FTAQLIRTLE YFAKIAK

Subcellular Localization Cytoplasm

Protein Region Full Length

UniProt Accession Number P52987

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

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 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.
