

GroEL E.Coli

Description: Recombinant GroEL produced in E.Coli is a single, non-glycosylated polypeptide chain containing 548 amino acids and having a molecular mass of 57.3kDa.

Catalog #: HYP5-011

Synonyms: CPN60, GROEL, HSP60, HSP65, SPG13, CHA60, GROL, crpA, mopA, 60 kDa chaperonin, Protein Cpn60, groEL protein, b4143, JW4103.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MAAKDVKFGN DARVKMLRGV NVLADAVKVT LGPKGRNVVL
DKSFGAPTIT KDGVSVAIEIEDKFENMG AQMVKEVASK ANDAAGDGT TATVLAQAI
TEGLKAVAAG MNPMDLKRIGDKAVTA AVEE LKALSVPCSD SKAIAQVGTI SANSDETVGK
LIAEAMDKVG KEGVITVEDGTGLQDELDVV EGMQFDRGYL SPYFINKPET GAVELESPFI
LLADKKISNI REPLP

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The groEL protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 1mM DTT and 10% Glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

GroEL protein is the major heat shock protein of E.coli and belongs to the chaperonin (HSP60) family. GroEL protein prevents misfolding of proteins and promotes the refolding and proper assembly of unfolded polypeptides generated under stress condition. GroEL gene was amplified by PCR from E.coli and cloned into an expression vector. This protein was overexpressed in E.coli and was purified by using conventional chromatography techniques.

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