

## GroEL Human

**Description:** Recombinant Human GroEL, HSP60 produced in E.Coli is a single, non-glycosylated polypeptide chain fused to a 20 a.a. His tag at N-terminus containing 593 amino acids (1-573 a.a.) and having a molecular mass of 63kDa. The HSP60 is purified by proprietary chromatographic techniques.

**Catalog #:** HYPS-023

For research use only.

**Synonyms:** CPN60, GROEL, HSP60, HSP65, SPG13, CHA60, GROL, crpA, mopA, 60 kDa heat shock protein mitochondrial, Heat shock protein 60, HSP-60, 60 kDa chaperonin, Chaperonin 60, Mitochondrial matrix protein P1, P60 lymphocyte protein, HuCHA60, HSPD1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MLRLPTVFRQ MRPVSRVLAP  
HLTRAYAKDV KFGADARALMLQGVDLLADA VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV  
AKSIDLKDKY KNIGAKLVQDVANNTNEEAG DGTATTVLA RSIAKEGF EK ISKGANPVEI  
RRGVM LA VDA VIAELKKQSKPVTTP EEIAQ VATISANGDK EIGNIISDAM KKVGRKG VIT  
VKDGKTLNDE LEIIE

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

### Formulation:

The GroEL protein contains 20mM Tris-HCl buffer pH-8.0, 5mM 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, HSP60 is a chaperonin located in the mitochondria which is responsible for the transportation & refolding of proteins from the cytoplasm directly into the mitochondrial matrix. GroEL is regulated by the HSP10 cochaperonin, which is a single heptameric protein ring having a molecular mass of 10 kDa which form a unique complex with HSP60. HSP10, GroES coordinates the ATPase activity of the HSP60 subunits in order to allow the release of bound polypeptide in a manner that is productive for its correct folding. The GroEL protein having the NCBI accession number NP\_002147 was purified by using conventional chromatography techniques.

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