

## GroES Human, His

**Description:** GroES His Protein is 12.0 kDa protein containing 111 amino acid residues of the GroES Human and the 10 aa N-Terminal His-tag.

**Catalog #:** HYP5-047

**Synonyms:** CPN10, GROES, HSP10, HSPE1, Chaperonin-10, 10 kDa heat shock protein mitochondrial, 10 kDa chaperonin, Early-pregnancy factor, EPF.

For research use only.

**Source:** E. coli

**Amino Acid Sequence:** MKHHHHHHAS AGQAFRKFLP LFDRVLVERS AAETVTGGI  
MLPEKSQGGKVLQATVVAVGS GSKGKGGEIQ PVSVKVGDKV LLPEYGGTKV VLDDKDYFLF  
RDGDILGKYV D

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

GroES His Human was filtered (0.4

**Stability:**

Store lyophilized GroES His at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted GroES His can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

**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.

**Applications:**

ELISA, Western blotting

**Solubility:**

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it on cell culture.

**Introduction:**

HSP10 is part of the molecular chaperons, that are crucial for their efficient folding of proteins in normal as well as stress conditions. GroES function is to bind to HSP60 in the presence of ATP, thus causing a change in the HSP60 conformation & enclosing the protein substrate within the complex. ATP hydrolysis by chaperonin-60 which destabilizes the HSP10-HSP60 complex, thereby allowing it to dissociate and secrete the substrate protein. GroES having the NCBI accession number of NP\_002148 was purified by using conventional chromatography techniques.

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