9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# GroES Human

*GroES (HSP10) Human Recombinant*
*RCP0971*

## Product Overview

| | |
|---|---|
| Name | GroES Human |
| **Description** | |
| GroES (HSP10) Human Recombinant | |
| Accession (Primary) | P61604 |
| **Synonyms** | |
| CPN10, GROES, HSP10, HSPE1, Chaperonin-10, 10 kDa heat shock protein mitochondrial, 10 kDa chaperonin, Early-pregnancy factor, EPF. | |
| **Introduction** | |
| HSP10 is part of the molecular chaperons, that are crucial for thir 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. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile filtered colorless solution. | |
| **Formulation** | |
| The GroES protein contains 20mM Tris buffer pH-8 & 50mM NaCl. | |
| **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. | |
| **Purity** | |
| Greater than 95.0% as determined by SDS-PAGE. | |
| **Amino acid sequence** | |
| MAGQAFRKFL PLFDRVLVER SAAETVTKGG IMLPEKSQGK VLQATVVAVG SGSKGKGGEI QPVSVKVGDK VLLPEYGGTK VVLDDKDYFL FRDGDILGKY VD. | |
| **Precautions** | |

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GroES Human is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P61604 )