

# Recombinant E. coli DnaK Protein

**Cat. No.** DnaK-313E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | DnaK (amino acids 1-638) was amplified by PCR and cloned into an E. coli expression vector. Recombinant E. coli DnaK (1-638) was overexpressed in E. coli and was purified to apparent homogeneity by using conventional column chromatography techniques.                                                                                                                                                                                      |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 1-638 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | ATP-regulated binding and release of polypeptide substrates. Hsc56 exhibits specificity toward Hsc62, as Hsc56 does not activate DnaK or Hsc66 ATPase activity.                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 69 kDa (638aa)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MGKIIIGIDLGTNSCVAIMDGTTTPRVLENAEGDRTPSIIAYTQDGETLVGQPAKRQA<br>VTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQIS<br>AEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTA<br>AALAYGLDKGTGNRTIAVYDLGGGTDFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDF<br>DSRLINYLVEEFKKDQGGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTVDNLPYITADA<br>TGPKHMKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPM<br>VQKKVAEFFGKEPRKDVNPDEAVAIGAAGVQGGVLTGDVKDVLILLDVTPLSLGIETMG |

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GVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGIN  
 PAPRGMPQIEVTFDIDADGILHVSADKDNKGKEQKITIKASSGLNEDEIQKMVRDAEA  
 NAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKG  
 EDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEE  
 VKDKK

**Purity** > 85% by SDS-PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/mL (determined by Bradford assay)

**Storage Buffer** 25mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl, 5mM DTT, 10% glycerol

## GENE INFORMATION

**Gene Name** [dnaK chaperone protein DnaK \[ Escherichia coli str. K-12 substr. MG1655 \]](#)

**Official Symbol** [dnaK](#)

**Synonyms** dnaK; chaperone protein DnaK; ECK0014; groPAB; groPC; groPF; grpC; grpF; seg; chaperone protein DnaK;

**Gene ID** [944750](#)

**Protein Refseq** [NP\\_414555](#)

**UniProt ID** [P0A6Y8](#)

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