

Recombinant E. coli DnaK Protein

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

SPECIFICATION

Product Overview	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.
Species	E.coli
Source	E.coli
ProteinLength	1-638 a.a.
Description	ATP-regulated binding and release of polypeptide substrates. Hsc56 exhibits specificity toward Hsc62, as Hsc56 does not activate DnaK or Hsc66 ATPase activity.
Form	Liquid
Molecular Mass	69 kDa (638aa)
AA Sequence	MGKIIGIDLGTNSCVAIMDGTTPRVLENAEGDRTPSIIAYTQDGETLVGQPAKRQA VTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQIS AEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTA AALAYGLDKGTGNRTIAVYDLGGGTDFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDF DSRLINYLVEEFKKDQGGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTVDNLPYITADA TGPKHMKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPM 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](#)

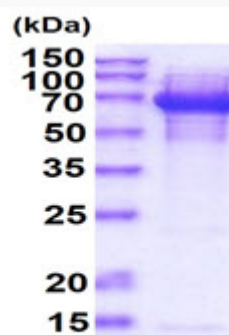
Protein Refseq [NP_414555](#)

UniProt ID [P0A6Y8](#)

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SDS-PAGE15% SDS-PAGE (3 μ g)

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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