dnaK
Recombinant *E. coli* DNAK (N-term aa 1-384)

Catalog No.	CSI15612A CSI15612B	**Quantity:**	100 µg 500 µg

Alternate Names: ECK0014, JW0013, groPAB, groPC, groPF, grpC, grpF, seg

Description: DnaK, originally identified for its DNA replication by bacteriophage λ in *E. coli* is the bacterial hsp70 chaperone. This protein is involved in the folding and assembly of newly synthesized polypeptide chains and in preventing the aggregation of stress-denatured proteins. DnaK (amino acids1-384) is N-terminal ATPase domain and ATP bound to the ATPase domain induces a conformational change in the substrate binding domain (residues 385-638). The protein coding region of the ATPase domain of DNAK (amino acids 1-384) was amplified by PCR and cloned into an E. coli expression vector. The ATPase domain of DNAK was overexpressed in *E. coli* and the recombinant protein was purified to apparent homogeneity by using conventional column chromatography techniques.

Concentration: 1 mg/ml (determined by Bradford assay)

Gene ID: 944750

Protein Accession No: NP_414555

Source: *E. coli*

Molecular Weight: 41.6kDa (384aa)

Formulation: Liquid. In 25 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl, 5 mM DTT, 10% glycerol

Purity: > 95% by SDS - PAGE

Amino Acid Sequence: MGKIIGIDLG TTNSCVAIMD GTTPRVLENA EGDRTTPSII AYTQDGETLV GQPAKRQAVT NPQNTLFAIK RLIGRRFQDE EVQRDVSIMP FKIIAADNGD AWVEVKGQKM APPQISAEVL KKMKKTAEDY LGEPVTEAVI TVPAYFNDAQ RQATKDAGRI AGLEVKRIIN EPTAAALAYG LDKGTGNRTI AVYDLGGGTF DISIIEIDEV DGEKTFEVLA TNGDTHLGGE DFDSRLINYL VEEFKKDQGI DLRNDPLAMQ RLKEAAEKAK IELSSAQQTD VNLPYITADA TGPKHMNIKV TRAKLESLVE DLVNRSIEPL KVALQDAGLS VSDIDDVILV GGQTRMPMVQ KKVAEFFGKE PRKDVNPDEA VAIGAAVQGG VLTG

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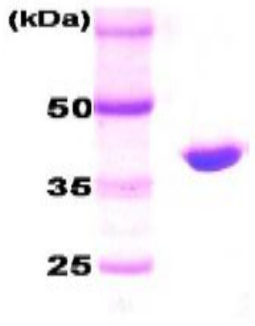
Storage & Stability: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -80°C. **Avoid repeated freezing and thawing cycles.**



13.5% SDS-PAGE (3ug)

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