

dnaK

Recombinant *E. coli* DNaK (aa 1-638)

Catalog No.	CSI15611A	Quantity:	100 µg
	CSI15611B		500 µg

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

Description: DnaK, originally identified for its DNA replication by bacteriophage lamda 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 acids 1-638) was amplified by PCR and cloned into an *E. coli* expression vector. DnaK 1-638 was overexpressed in *E. coli* and 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: 69kDa (638aa)

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

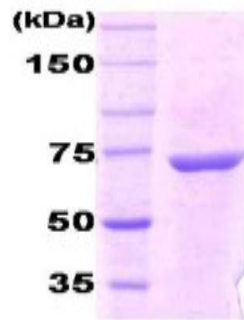
Amino Acid Sequence: MGKIIGIDLG TTNSCVAIMD GTTPRVLENA EGDRTTPSII AYTQDGETLV
GQPAKRQAVT NPQNTLFAIK RLIGRRFQDE EVQRDVSI MP FKIIAADNGD
AWVEVKGQKM APPQISAEVL KKMKKTAEDY LGEPVTEAVI TVPAYFNDAQ
RQATKDAGRI AGLEVKRIIN EPTAAALAYG LDKGTGNRTI AVYDLGGGTF DISIIEIDEV
DGEKTFEVL TNGDTHLGGE DFDSRLINYL VEEFKKDQGI DLRNDPLAMQ
RLKEAAEKAK IELSSAQQT D VNLPIYITADA TGPKHMNIKV TRAKLESLVE
DLVNRSIEPL KVALQDAGLS VSDIDDVILV GGQTRMPMVQ KKVAEFFGKE
PRKDVNPDEA VAIGAAVQGG VLTGDVKDVL LLDVTPLSLG IETMGGVMTT
LIAKNTTIPT KHSQVFSTAE DNQSAVTIHV LQGERKRAAD NKSLGQFNLD
GINPAPRGMP QIEVTFDIDA DGILHVS AKD KNSGKEQKIT IKASSGLNED



EIQKMVRDAE ANAEADRKFE ELVQTRNQGD HLLHSTRKQV EEAGDKLPAD
DKTAIESALT ALETALKGED KAAIEAKMQE LAQVSQKLME IAQQQHAQQQ
TAGADASANN AKDDDVVDAE FEEVKDKK

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.**



15% SDS-PAGE (3µg)

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