

dnaK

Recombinant *E. coli* DNAK (C-term aa 385-638)

Catalog No.	CSI15613A	Quantity:	100 µg
	CSI15613B		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. The protein coding region of the substrate binding domain of DNAK (amino acids 385-638) was amplified by PCR and cloned into an *E. coli* expression vector. The substrate binding domain of DNAK was overexpressed in *E. coli* and the recombinant protein was purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid(Met) is attached at N- terminus.

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

Gene ID: 944750

Protein Accession No: NP_414555

Source: *E. coli*

Molecular Weight: 27.7kDa (255aa), confirmed by MALDI-TOF.

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: MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ
SAVTIHVLQG ERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI
LHVSADKNS GKEQKITIKA SSSLNEDEIQ KMVRDAEANA EADRKFEELV
QTRNQGDHLL HSTRKQVEEA GDKLPADDKT AIESALTALE TALKGEDKAA
IEAKMQELAQ VSQKLMEIAQ QQHAQQQTAG ADASANNAKD DDVVDAEFEE VKDKK

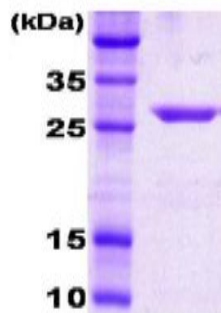
Storage & Stability: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -80°C. **Avoid repeated freezing and thawing cycles.**



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14% SDS-PAGE (3ug)

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