

Recombinant E.coli DnaK Chaperone Hsp70, Co-chaperone with DnaJ (385-546)

Cat. No. DnaK-312E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dna K protein was overexpressed in E.coli and purified to apparent homogeneity by using conventional column chromatography techniques (163 aa, 17.7 kDa).
Species	E.coli
Source	E.coli
Description	DNAK, originally identified for its DNA replication by bacteriophage I in E. coli is the bacterial hsp70 chaperone. The protein coding region of the substrate binding domain of DNAK (amino acids 385-546) 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.
Formulation	Liquid. In 25 mM Tris-HCl buffer (pH 7.5) containing 1 mM EDTA, 2 mM b-mercaptoethanol.
Molecular Weight	17.7kDa (163aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequence

MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ
SAVTIHVLQG ERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI
LHVSAKDKNS GKEQKITIKA SSSLNEDEIQ KMVRDAEANA EADRKFEELV
QTRNQGDHLL HST

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

[dnaK](#)

Synonyms

dnaK; dnaK chaperone Hsp70, co-chaperone with DnaJ; Hsp70 protein; ECK0014; groPAB; groPC; groPF; grpC; grpF; JW0013; seg; chaperone Hsp70; DNA biosynthesis; autoregulated heat shock proteins.

Gene ID

[944750](#)

Protein Refseq

[NP_414555.1](#)

UniProt ID

[P0A6Y8](#)

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