Recombinant E.coli DnaK Chaperone Hsp70, Co-chaperone with DnaJ (508-638)

Cat. No. DnaK-316E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant DNAK was overexpressed in E. coli and purified to apparent homogeneity by using conventional column chromatography techniques (132 aa, 14.6 kDa). Additional amino acid(Met) is attached at N- terminus.
Species	E.coli
Source	E.coli
Description	DnaK, originally identified for its DNA replication by bacteriophage l 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(residues 508-638) of the substrate binding domain is a-helical and appears to act as a lid covering the substrate binding cleft.
Formulation	Liquid. In 25 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl, 1 mM DTT, 10% glycerol.
Molecular Weight	14.6 kDa (132aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MNEDEIQKMV RDAEANAEAD RKFEELVQTR NQGDHLLHST RKQVEEAGDK

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	LPADDKTAIE SALTALETAL KGEDKAAIEA KMQELAQVSQ KLMEIAQQQH AQQQTAGADA SANNAKDDDV VDAEFEEVKD KK
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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