

dnaK

Recombinant *E. coli* DnaK Substrate Binding Domain (aa 508-638)

Catalog No.	CSI13242 CSI13243 CSI13244	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	HSP-70, HSP70, DnaK, Chaperone protein dnaK, Heat shock protein 70, Heat shock 70 kDa protein, groP, grpF, seg, b0014, JW0013.		
Description:	DnaK, originally identified for its DNA replication by bacteriophage I in <i>E. coli</i> 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. DnaK (amino acid 508-638) was purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid (Met) is attached at N- terminus. Recombinant DnaK Substrate Binding domain produced in <i>E.coli</i> is a single, non-glycosylated polypeptide chain containing 132 amino acids.		
Physical Appearance:	Sterile filtered colorless solution.		
Gene ID:	944750		
Source:	<i>E. coli</i>		
Molecular Mass:	14.6 kDa		
Formulation:	The protein contains 25 mM Tris-HCl, pH 7.5 + 100 mM NaCl + 5 mM DTT and 10% Glycerol.		
Purity:	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.		
Amino Acid Sequence:	MNEDEIQKMV RDAEANAED RKFEELVQTR NQGDHLLHST RKQVEEAGDK LPADDKTAIE SALTALETAL KGEDKAAIEA KMQELAQVSQ KLMEIAQQQH AQQQTAGADA SANNAKDDDV VDAEFEEVKD KK		
Storage & Stability:	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.		

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