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**DnaK(amino acids 508-638) Recombinant, *E.coli***

Cat. No. DNK3004

Size ; 100  $\mu$ g

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**Description :** DnaK, originally identified for its DNA replication by bacteriophage  $\lambda$  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  $\alpha$ -helical and appears to act as a lid covering the substrate binding cleft. DnaK(amino acid 508-638) was overexpressed in *E. coli* and purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid(Met) is attached at N- terminus

**Form :** Liquid. 25 mM Tris-HCl, pH7.5, 100mM NaCl, 1 mM DTT, 10%Glycerol.

**Molecular Weight :** 14.6kDa (132 amino acids)

**Purity :**  $\geq$  95% by SDS PAGE

**Sequence :**

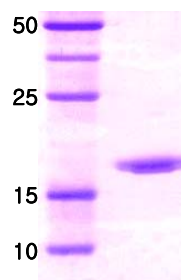
MNEDEIQKMV RDAEANA EAD RKFEELVQTR NQGDHLLHST RKQVEEAGDK LPADDKTAIE  
SALTALETAL KGEDKAAIEA KMQELAQVSQ KLMEIAQQQH AQQQTAGADA SANNAKDDDDV  
VDAEFEEVKD KK

**Storage :** Store at -20 °C. Avoid freeze/thaw cycles.

**Reference :** Bardwell & Craig (1984) *Proc. Natl. Acad. Sci.* 81,  
848-852

Zhu *et al.*, (1996) *Science* 272, 1606-1614.

Naoki tanaka., *et al* (2002) *PNAS* 26(99)15398-15403



14% SDS-PAGE