

---

**DnaK(amino acids 385-638) Recombinant, *E.coli***

Cat. No. DNK3003

Size ; 100  $\mu$ g

---

**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.

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

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

**Molecular Weight :** 27.7kDa (255 amino acids)

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

**Sequence :**

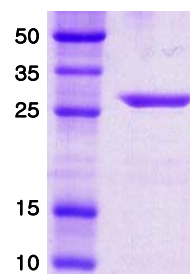
MDVKDVLILLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ SAVTIHVLQG  
ERKRAADNKS LGQFNLDGIN PAPRGMPPQIE VTFDIDADGI LHVSAKDKNS GKEQKITIKA  
SSGLNEDEIQ KMVRDAEANA EADRFEEELV QTRNQGDLHL HSTRKQVEEA GDKLPADDDKT  
AIESALTALE TALKGEDKAA IEAKMQELAQ VSQKLMEIAQ QQHAQQQTAG ADASANNAKD  
DDVVDAEFEE VKDKK

**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