

## 32-5308: Recombinant E.Coli DnaK Substrate Binding Domain C-terminal

**Alternative Name :** HSP-70,HSP70,DnaK,Chaperone protein dnaK,Heat shock protein 70,Heat shock 70 kDa protein,groP,grpF,seg,b0014,JW0013.

### Description

Source : Escherichia Coli. Recombinant DnaK Substrate Binding Domain C-terminal produced in E.Coli is a single, non-glycosylated polypeptide chain containing 255 amino acids and having a molecular mass of 27.7 kDa. DnaK, originally identified for its DNA replication by bacteriophage I 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 purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid (Met) is attached at N- terminus.

### Product Info

**Amount :** 100 µg  
**Purification :** Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** The DnaK protein contains 25mM Tris-HCl, pH7.5, 100mM NaCl, 5mM DTT and 10%Glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ  
SAVTIHVLQGERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI LHVSAKDKNS  
GKEQKITIKA SSGLNEDEIQ KMVRDAEANA EADRFEEELV QTRNQGDHLL HSTRKQVEEA  
GDKLPADDKTAIESALTALE TALKGEDKAA IEAKMQELAQ VSQKLMEIAQ QQHAQQQTAG  
ADASANNAKD DDVVDAEFEE VKDKK.

