

## Dnak SBD C-terminus E.Coli

**Description:** 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.

**Catalog #:** HYP5-016

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

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS  
QVFSTAEDNQ SAVTIHVLQGERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI  
LHVSADKNS GKEQKITIKA SSGLNEDEIQ KMRVDAEANA EADRKFEELV QTRNQGDHLL  
HSTRKQVEEA GDKLPADDKTAIESALTALE TALKGEDKAA IEAKMQELAQ VSQKLMEIAQ  
QQHAQQQTAG ADAS

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

### Formulation:

The Dnak protein contains 25mM Tris-HCl, pH7.5, 100mM NaCl, 5mM DTT and 10% Glycerol.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

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.

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