dnaK
Recombinant DNAK Substrate Binding Domain (aa 385-638)

Catalog No.	CSI13245	**Quantity:**	20 µg
	CSI13246		100 µg
	CSI13247		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 l 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.
Recombinant Dnak Substrate Binding Domain C-terminal produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 255 amino acids.

Physical Appearance: Sterile filtered colorless solution.

Gene ID: 944750

Source: *E. coli*

Molecular Mass: 27.7 kDa

Formulation: The DnaK 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: MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ SAVTIHVLQGERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI LHVSAKDKNS GKEQKITIKA SSGLNEDEIQ KMVRDAEANA EADRKFEELV QTRNQGDHLL HSTRKQVEEA GDKLPADDKTAIESALTALE TALKGEDKAA IEAKMQELAQ VSQKLMEIAQ QQHAQQQTAG ADASANNAKD DDVVDAEFEE VKDKK.

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.

Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com