



Product Datasheet

Product Name	Dnak Substrate Binding Domain C-terminal E.Coli Recombinant
Cata No	CB500759
Source	<i>Escherichia Coli.</i>
Synonyms	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 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.

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.

Physical Appearance

Sterile filtered colorless solution.

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.

Sequence

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