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## Product Data Sheet

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Product Name: DnaK SBD  
 Cat. No.: GP25078  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HSP-70; HSP70; DnaK; Chaperone protein dnaK; Heat shock protein 70; Heat shock 70 kDa protein; groP; grpF; seg; b0014; JW0013.		
Amino Acid Sequence	MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ SAVTIHVLQG ERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI LHVSAKDKNS GKEQKITIKA SSGLNEDEIQ KMVRDAEANA EADRKFEELV QTRNQGDLHLL HST.		
Formulation	The protein contains 25mM Tris-HCl, pH7.5, 2mM B-ME and 1mM DTT.		

### 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. DnaK(residues 508-638) of the substrate binding domain is  $\alpha$ -helical and appears to act as a lid covering the substrate binding cleft. DnaK(amino acid 508-638) was purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid (Met) is attached at N- terminus.

### 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.

### Background

Recombinant DnaK Substrate Binding domain produced in E.Coli is a single, non-glycosylated polypeptide chain containing (385-546 a.a.) 163 amino acids and having a molecular mass of 17.7 kDa.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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