9051 Mira Mesa Blvd, #910094
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DnaK SBD

DnaK Substrate Binding Domain E.Coli Recombinant
RCP0669

Product Overview

Name	DnaK SBD

Description

DnaK Substrate Binding Domain E.Coli Recombinant

Synonyms

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

Introduction

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. Dnak(residues 508-638) of the substrate binding domain is a-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.

Source

Escherichia Coli.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The protein contains 25mM Tris-HCl, pH7.5, 2mM B-ME and 1mM DTT.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ SAVTIHVLQG ERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI LHVSAKDKNS GKEQKITIKA SSGLNEDEIQ KMVRDAEANA EADRKFEELV QTRNQGDHLL HST.

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Precautions

DnaK SBD is for research use only and not for use in diagnostic or therapeutic procedures.