

Recombinant E.coli Dnak(508-638aa) protein

Catalog Number: DNK3004

PRODUCT INFORMATION

Expression system

E.coli

Domain

508-638aa

UniProt No.

P0A6Y8

NCBI Accession No.

NP_414555

Alternative Names

Dnak (508-638), A lid covering the substrate, Heat shock protein 70, Heat shock 70 kDa protein, HSP70, Chaperone protein dnaK, Chaperone Hsp 70, Co chaperone with DnaJ, dnaK, Heat shock 70 kDa protein,

PRODUCT SPECIFICATION

Molecular Weight

14.6 kDa (132aa)

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. 25mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

DnaK, originally identified for its DNA replication by bacteriophage lambda 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 overexpressed in E. coli and purified to apparent homogeneity by using conventional column

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chromatography techniques. Additional amino acid (Met) is attached at N- terminus

Amino acid Sequence

MNEDEIQKMV RDAEANA EAD RKFEELVQTR NQGDHLLHST RKQVEEAGDK LPADDKTAIE SALTALETAL KGEDKAAIEA
KMQELAQVSQ KLMEIAQQQH AQQQTAGADA SANNAKDDDDV VDAEFEEVKD KK

General References

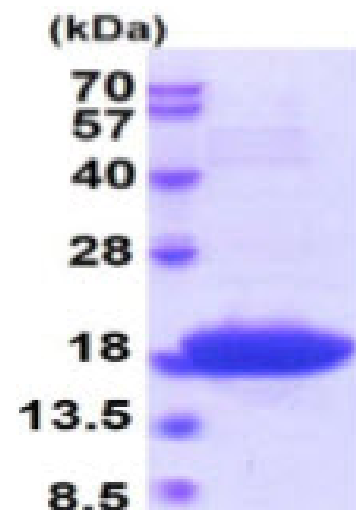
Bardwell & Craig (1984) Proc. Natl. Acad. Sci. 81, 848-852

Zhu et al., (1996) Science 272, 1606-1614.

Naoki tanaka., et al (2002) PNAS 26(99)15398-15403

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)