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Recombinant E.coli Dnak(385-546aa) protein

Catalog Number: DNK2001

PRODUCT INFORMATION

Expression system
E.coli

Domain
385-546aa

UniProt No.
P0A6Y8

NCBI Accession No.
NP_414555

Alternative Names
Chaperone protein dnaK, HSP70, groP, grpF, seg, Heat shock protein 70, Chaperone Hsp70, Co chaperone with DnaJ, dnaK, Heat shock 70 kDa protein,

PRODUCT SPECIFICATION

Molecular Weight
17.7 kDa (163aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 25mM Tris-HCl buffer (pH 7.5) containing 2mM beta-mercaptoethanol, 1mM EDTA

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. The protein coding region of the substrate binding domain of DNAK (amino acids 385-546) was amplified by PCR and cloned into an E. coli expression vector. The substrate binding domain of DNAK was overexpressed in E. coli and the recombinant protein was purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid (Met) is attached at N- terminus

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Amino acid Sequence

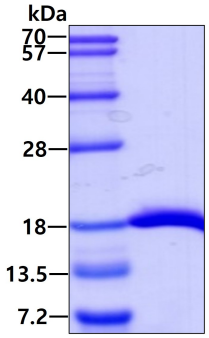
MDVKDVLLLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ SAVTIHVLQG ERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI LHVSAKDKNS GKEQKITIKA SSGLNEDEIQ KMVRDAEANA EADRKFEELV QTRNQGDHLL HST

General References

Bardwell & Craig (1984) Proc. Natl. Acad. Sci. 81, 848-852
Zhu et al., (1996) Science 272, 1606-1614.

DATA

SDS-PAGE



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