

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

MDVKDVLILLD VTPLSLGIET MGGVMTLLIA KNTTIPTKHS QVFSTAEDNQ SAVTIHVLQG ERKRAADNKS LGQFNLDGIN
PAPRGMPQIE VTFDIDADGI LHVSAKDKNS GKEQKTIKA SSSLNEDEIQ KMVRDAEANA EADRFEEELV QTRNQGDHLL
HST

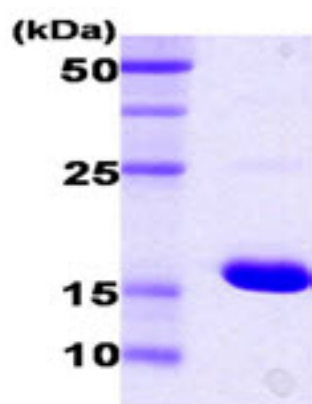
General References

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.

15% SDS-PAGE (3ug)