Recombinant E.coli DnaJ protein

Catalog Number: DNJ3001

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-376aa

UniProt No.
P08622

NCBI Accession No.
NP_414556

Alternative Names
DNAJA1, DNAJ2, HDJ2, HSJ2, HSPF4, DnaJ (1-376aa), Heat shock 40 kDa protein 4, DnaJ protein homolog 2, HDJ-2, HSJ-2, HSDJ, DnaJ homolog subfamily A member 1,

PRODUCT SPECIFICATION

Molecular Weight
41.1 kDa (376aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 25mM Tris-HCl buffer (pH 8.8) containing 5mM DTT, 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
DnaJ, Heat shock protein, functions in association with DnaK (Hsp70) molecular chaperone to facilitate protein folding. p70 chaperone. DnaJ plays a key role in the chaperone reaction by stimulating the ATPase activity and activating the substrate binding of Hsp70.. DnaJ consists of four domains that are N-terminal 76 amino acid J-domain, G/F domain, zinc-binding cystein rich CR-domain, C-terminal CTD-domain and they are conserved to various degrees among the homologues. DnaJ (amino acids 1-376) was overexpressed in E. coli and purified to

apparent homogeneity by using conventional column chromatography techniques.

Amino acid Sequence

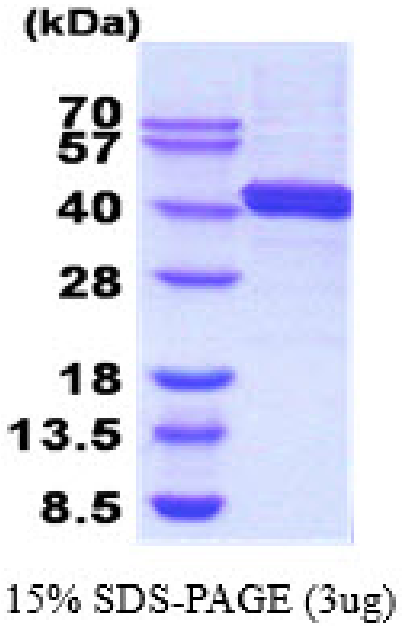
MAKQDYYEIL GVSKTAEEHE IRKAYKRLAM KYHPDRNQGD KEAEAKFKEI KEAYEVLTDS QKRAAYDQYG HAAFEQGGMG GGGFGGGADF SDIFGDVFGD IFGGGRGRQR AARGADLRYN MELTLEEAVR GVTKEIRIPT LEECDVCHGS GAKPGTQPQT CPTCHGSGQV QMRQGFFAVQ QTCPHCQGRG TLIKDPCNKC HGHGRVERSK TLSVKIPAGV DTGDRIRLAG EGEAGEHGAP AGDLYVQVQV KQHPIFEREG NNLYCEVPIN FAMAALGGEI EVPTLDGRVK LKVPGETQTG KLFRMRGKGV KSVRGGAQGD LLCRVVVETP VGLNERQKQL LQELQESFGG PTGEHNSPRS KSFFDGVKKF FDDLTR

General References

Bardwell,J.C., et al (1986) J.Biol.Chem.261(4)
1782-1785
Ohki M.,et al (1986) J.Biol.Chem.261(4)
1778-1781
Zylicz M., et.al.(1989) EMBO J 8(5)1601-8
Landry SJ., et al. (2003) Biochemistry 42(17)4926-36

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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