

Product information

Dna J, 1-376 aa

E.coli, Recombinant, *E.coli*

Cat. No. IBDNJ3001

Synonyms: Chaperone protein dnaJ, Heat shock protein J, HSP40, groP

NCBI Accession No.: NP_414556

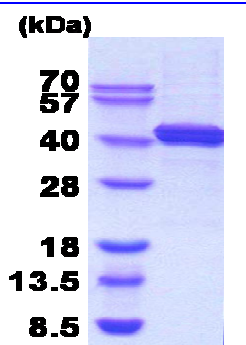
Description: DnaJ, Heat shock protein, functions in association with DnaK(Hsp70) molecular chaperone to facilitate protein folding. p70 chaperone. DnaJ plays a key role in the chaperone reaction by stimulating the ATPase activity and activating the substrate binding of Hsp70. DnaJ consists of four domains 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.

Form: Liquid. In 25 mM Tris-HCl buffer (pH 8.8) containing 5 mM DTT, 100 mM NaCl, 10% glycerol

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

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MAKQDYIEIL GVSKTAEHE IRKAYKRLAM KYHPDRNQGD KEAEAKFKEI KEAYEVLTDQ QKRAAYDQYG HAAFEQGGMG GGGFGGGADF
SDIFGDVFGD IFGGGRGRQR AARGADLRYN MELTLEEAVR GVTKEIRIPT LEECDVCHGS GAKPGTQPQT CPTCHGSGQV QMRQGFFAVQ
QTCPHCQGRG TLIKDPCNKC HGHRVERSK TSVKIPAGV DTGDRIRLAG EGEAGEHGAP AGDLYVQVQV KQHPIFEREG NNLYCEVPIN
FAMAALGGEI EVPTLDGRVK LKVPGETQTG KLFRMRGKGV KSVRGGAQGD LLCRVVETP 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 S.J., *et al.* (2003) *Biochemistry* **42**(17)4926-36

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.