
Dna J(amino acids 1-376) Recombinant, *E.coli*

Cat. No. DNJ3001

Size ; 100 μ g

Synonyms : Hsp40

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. 25 mM Tris-HCl, pH7.5, 100 mM NaCl, 5mM DTT,10% Glycerol.

Molecular Weight : 41.1KDa (376 amino acids)

Sequence ; MAKQDYIEIL GVSKTAEHE IRKAYKRLAM KYHPDRNQGD KEAEAKFKEI KEAYEVLTD

QKRAAYDQYG HAAFEQGGMG GGGFGGGADF SDIFGDVFGD IFGGGRGRQR AARGADLRYN
MELTLEEAVR GVTKEIRIPT LEECDVCHGS GAKPGTQPQT CPTCHGSGQV QMRQGGFAVQ
QTCPHCQGRG TLIKDPCNK C HGHGRVERSK T LSVKIPAGV DTGDRIRLAG EGEAGEHGAP
AGDLYVQVQV KQHPIFEREG NNLYCEVPIN FAMAALGGEI EVPTLDGRVK LKVPGETQTG
KLFRMRGKGV KSVRGGAGGD LLCRVVETP VGLNERQKQL LQELQESFGG PTGEHNSPRS
KSFFDGVKKF FDDLTR

Purity : \geq 95% by SDS PAGE

Storage : Store at -20 °C. Avoid freeze/thaw cycles.

Reference : 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 (2003) *Biochemistry* 42(17)4926-36

