

## Recombinant E.coli DnaJ Chaperone Hsp40, Co-chaperone with DnaK (1-376)

**Cat. No.** DnaJ-317E    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant DnaJ was overexpressed in E. coli and purified to apparent homogeneity by using conventional column chromatography techniques (376 aa, 41.1 kDa).                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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. |
| <b>Formulation</b>      | Liquid. In 25 mM Tris-HCl buffer (pH 7.5) containing 5 mM DTT, 100 mM NaCl, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Weight</b> | 41.1 kDa (376aa).                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | > 95% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>    | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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**Sequence**

MAKQDYIEIL GVSKTAEHE IRKAYKRLAM KYHPDRNQGD KEAEAKFKEI  
 KEAYEVLTDG 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 LLCRVVETP VGLNERQKQL LQELQESFGG  
 PTGEHNSPRS KSFFDGVKKF FDDLTR

**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.

**GENE INFORMATION**
**Gene Name**

[dnaJ](#)

**Synonyms**

dnaJ; dnaJ chaperone Hsp40, co-chaperone with DnaK; ECK0015; groP; grpC; JW0014; chaperone with DnaK; heat shock protein; Hsp40 (heat shock protein 40 kD).

**Gene ID**

[944753](#)

**Protein Refseq**

[NP\\_414556.1](#)

**UniProt ID**

P08622