

# Recombinant human HSP40/DNAJB1 protein

Catalog Number: HSP0701

## PRODUCT INFORMATION

### Expression system

E.coli

### Domain

1-340aa

### UniProt No.

P25685

### NCBI Accession No.

NP\_006136

### Alternative Names

Heat shock 40 kDa protein 1, DNAJB1, DNAJ1, HDJ1, HSPF1, HSP40 (DNAJ), Heat shock 40 kDa protein 1, Heat shock protein 40, HSP40, DnaJ protein homolog 1, HDJ-1, DnaJ homolog subfamily B member 1, Heat shock 40 kDa protein 1, radial spoke 16 homolog B (Chlamydomonas), Hsp40, Sis1, RSPH16B,

## PRODUCT SPECIFICATION

### Molecular Weight

40.2 kDa (360aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### 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

Human HSP40 (heat shock protein with molecular size of 40kDa) is one of the mammalian homologues of bacterial DnaJ heat shock protein and regulates cellular processes by aiding in the folding, transport and

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assembly. HSP40 protein contains the J-domain which controls interaction with the ATPase domain of DnaK. Recombinant human HSP40, his-tagged, is overexpressed in *E. coli* and purified by using the conventional column chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSSLVPRGSH> MGKDYYQTLG LARGASDEEI KRAYRRQALR YHPDKNKEPG AEEKFKEIAE  
AYDVLSDPRK REIFDRYGEE GLKGSGPSGG SGGGANGTSF SYTFHGDPHA MFAEFFGGRN PFDTFGGQRN GEEGMDIDDP  
FSGFPMGMGG FTNVNFGSR SAQEPARKKQ DPPVTHDLRV SLEEIYSGCT KKMKISHKRL NPDGKSIRNE DKILTIEVKK  
GWKEGTKITF PKEGDQTSNN IPADIVFVLK DKPHNIFKRD GSDVIYPARI SLREALCGCT VNVPTLDGRT IPVVFQDVIR  
PGMRRKVPGE GLPLPKTPEK RGDLIIEFEV IFPERIPQTS RTVLEQVLPI

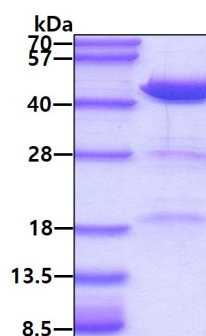
## General References

Hata M, Okumura K, Seto M, Ohtsuka K. (1996). *Genomics* 38(3): 446-9

Manishkumar and Debashis Mitra. (2005). *Journal of Biological Chemistry* 280(48): 40041-40050.

## DATA

### SDS-PAGE



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