

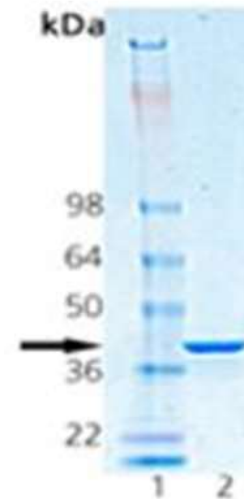
## Recombinant Human HDJ1

<b>CATALOG NO:</b>	4899-25
<b>ALTERNATE NAME:</b>	Heat shock protein 40, DnaJ protein homolog 1, HSP40
<b>AMOUNT:</b>	25 µg
<b>SOURCE:</b>	<i>E. coli</i>
<b>PURITY:</b>	≥ 80% as determined by SDS-PAGE
<b>PHYSICAL APPEARANCE:</b>	Liquid
<b>FORMULATION:</b>	In Dulbecco's PBS
<b>PURIFICATION:</b>	Purified by multi-step chromatography.
<b>STORAGE CONDITIONS:</b>	-80° C

**DISCRIPTION:** Hsp40/Hdj1 is a cytosolic co-chaperone belonging to the class DnaJ, named after its homolog in *E. coli*. Hsp40 functions in protein folding by binding nascent peptides and unfolded substrates and facilitating substrate interaction with Hsp70. Binding of Hsp40 to Hsp70 increases Hsp70 ATP hydrolysis and substrate binding, which is reversed by the action of nucleotide exchange factors (GrpE in *E. coli*). Repeated cycles of Hsp40/Hsp70 peptide binding and ATP hydrolysis prevent premature folding and aggregation, promoting protein maturation throughout the cell.

**APPLICATION:** WB, Antigen microarray, EMSA, in vitro Assay

**REFERENCE:** Y. Minami, et al. Regulation of the heat-shock protein 70 reaction cycle by the mammalian DnaJ homolog, Hsp40. *J. Biol. Chem.* 271, 19617 (1996).



### SDS-PAGE analysis:

Lane 1: MW marker  
Lane 2: 2 µg of purified Human HSP40 Protein

### RELATED PRODUCTS:

- Heat Shock Protein 20, human recombinant (**Cat. No. 4847-10**)
- Heat Shock Protein 22, human recombinant (**Cat. No. 4850-10**)
- Heat Shock Protein 27, human recombinant (**Cat. No. 4853-10**)
- Heat Shock Protein 70, human recombinant (**Cat. No. 4859-10**)
- Heat Shock Protein 90 (Hsp90 beta) NT-His Tag, human recombinant (**Cat. No. 4858H-25**)
- Heat Shock Protein 90 (Hsp90), human recombinant (**Cat. No. 4858-25**)
- Hsp105 Antibody (**Cat. No. 3390-100**)
- Hsp27 Antibody (**Cat. No. 3092-100**)
- Hsp47 Antibody (**Cat. No. 3496-100**)
- Hsp60 Antibody (**Cat. No. 3094R-100**)
- Hsp70 Antibody (**Cat. No. 3097-100**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**