

Recombinant Human DnaJ (Hsp40) Homolog, Subfamily B, Member 1, His-tagged;

Cat. No. DNAJB1-323H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSP40, his-tagged, is overexpressed in E.coli and purified by using the conventional column chromatography techniques (360 aa, 40.2 kDa).
Species	Human
Source	E.coli
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 assembly. HSP40 protein contains the J-domain which controls interaction with the ATPase domain of DnaK.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT, 0.2 mM PMSF, 10% glycerol.
Molecular Weight	40.2 kDa (360 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
Sequence	MGSSHHHHHH SSGLVPRGSH MGKDYYQTLG LARGASDEEI KRAYRRQALR

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YHPDKNKEPG AEEKFKEIAE AYDVLSDPRK REIFDRYGEE GLKGSGPSGG
 SGGGANGTSF SYTFHGDPHA MFAEFFGGRN PFDTFFGQRN GEEGMDIDDP
 FSGFPMGMGG FTNVNFGRSR SAQEPARKKQ DPPVTHDLRV SLEEIYSGCT
 KKMKISHKRL NPDGKSIRNE DKILTIEVKK GWKEGTKITF PKEGDQTSNN
 IPADIVFVLK DKPHNIFKRD GSDVIYPARI SLREALCGCT VNVPTLDGRT
 IPVVFKDvir PGMRRKVPGE GLPLPKTPEK RGDLIIEFEV IPERIPQTS
 RTVLEQVLPI

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

[DNAJB1](#)

Synonyms

DNAJB1; DnaJ (Hsp40) homolog, subfamily B, member 1; Hdj1; Sis1; HSPF1; Hsp40; DNAJ1; HDJ-1; HDJ1; DnaJ protein homolog 1; Heat shock protein 40; Heat shock 40 kDa protein 1; heat shock 40kD protein 1; DnaJ (Hsp40) homolog, subfamily B, member 1; Hsp40 (heat shock protein 40 kD).

Gene ID

[3337](#)

mRNA Refseq

[NM_006145.1](#)

Protein Refseq

[NP_006136.1](#)

MIM

[604572](#)

UniProt ID

[P25685](#)

Chromosome

19p13.2

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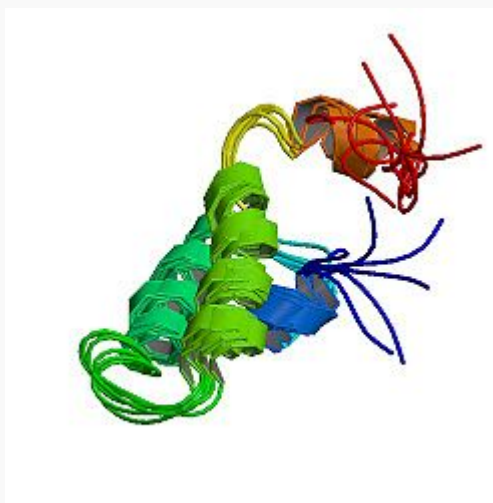
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Location

Function

heat shock protein binding; unfolded protein binding.

PDBrendering based
on 1hdj. Available
structures: 1hdj.



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