

# Recombinant Mouse Dnajb1 protein, His & T7-tagged

**Cat. No.** Dnajb1-7863M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Dnajb1 aa. (Gly2~Ile340 (Accession# Q9QYJ3)) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | Gly2~Ile340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene encodes a member of the DnaJ or Hsp40 (heat shock protein 40 kD) family of proteins. The encoded protein is a molecular chaperone that stimulates the ATPase activity of Hsp70 heat-shock proteins in order to promote protein folding and prevent misfolded protein aggregation. The encoded protein may also inhibit apoptosis. Peritoneal macrophages derived from homozygous knockout mice for this gene exhibit impaired heat tolerance. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 41.7kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristic</b> | The isoelectric point is 8.8.                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP                                                                                                                                                                                                                                                                                                             |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Dnajb1 DnaJ heat shock protein family (Hsp40) member B1 [ Mus musculus (house mouse) ]                                                                                                                         |
| <b>Official Symbol</b> | Dnajb1                                                                                                                                                                                                         |
| <b>Synonyms</b>        | Dnajb1; DnaJ heat shock protein family (Hsp40) member B1; DjB1; Hdj1; HSPF1; Hsp40; 0610007111Rik; dnaJ homolog subfamily B member 1; DnaJ (Hsp40) homolog, subfamily B, member 1; heat shock 40 kDa protein 1 |
| <b>Gene ID</b>         | 81489                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_018808.3                                                                                                                                                                                                    |

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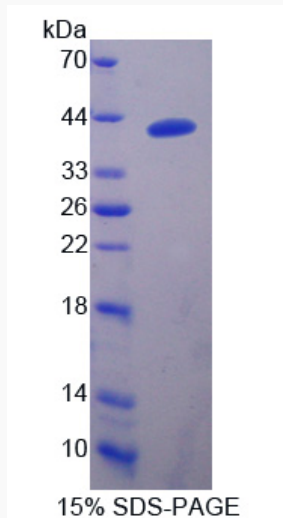
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**Protein Refseq** NP\_061278.1

**UniProt ID** Q9QYJ3

**SDS-PAGE**



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