

Recombinant Mouse Dnaja1 Protein, MYC/DDK-tagged

Cat. No. Dnaja1-1185M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse DnaJ heat shock protein family (Hsp40) member A1 (Dnaja1), with C-terminal MYC/DDK tag, was expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	The protein encoded by this gene is a member of the DnaJ family, whose members act as cochaperones of heat shock protein 70. Heat shock proteins facilitate protein folding, trafficking, prevention of aggregation, and proteolytic degradation. Members of this family are characterized by a highly conserved N-terminal J domain, a glycine/phenylalanine-rich region, four CxxCxCxG zinc finger repeats, and a C-terminal substrate-binding domain. The J domain mediates the interaction with heat shock protein 70 to recruit substrates and regulate ATP hydrolysis activity. Mice deficient for this gene display reduced levels of activation-induced deaminase, an enzyme that deaminates deoxycytidine at the immunoglobulin genes during immune responses. In addition, mice lacking this gene exhibit severe defects in spermatogenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants.
Molecular Mass	44.9 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Dnaja1 DnaJ heat shock protein family (Hsp40) member A1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Dnaja1
Synonyms	Dnaja1; DnaJ heat shock protein family (Hsp40) member A1; Hsj2; HSJ-2; Nedd7; dnaJ homolog subfamily A member 1; DnaJ (Hsp40) homolog, subfamily A, member 1; dnaJ protein homolog 2; heat shock 40 kDa protein 4; heat shock protein J2; heat shock protein, Dnaj-like 2; neural precursor cell expressed, developmentally down-regulated gene 7
Gene ID	15502
mRNA Refseq	NM_001164671
Protein Refseq	NP_001158143
UniProt ID	P63037

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