

Recombinant Human DNAJA1 Protein, His-tagged

Cat. No. DNAJA1-2169H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNAJA1 Protein (Thr5-Leu234) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr5-Leu234
Description	This gene encodes a member of the DnaJ family of proteins, which act as heat shock protein 70 cochaperones. 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 CxxCxxG 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. In humans, this gene has been implicated in positive regulation of virus replication through co-option by the influenza A virus. Several pseudogenes of this gene are found on other chromosomes.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.2 kDa Accurate Molecular Mass: 32 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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 centigrade 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	DNAJA1 DnaJ (Hsp40) homolog, subfamily A, member 1 [Homo sapiens (human)]
Official Symbol	DNAJA1
Synonyms	DNAJA1; DnaJ (Hsp40) homolog, subfamily A, member 1; HSJ2; dnaJ homolog subfamily A member 1; dj 2; hdj 2; HSPF4; NEDD7; neural precursor cell expressed; developmentally down regulated 7; HSJ-2; human DnaJ protein 2; heat shock protein J2; dnaJ protein homolog 2; heat shock 40 kDa protein 4; heat shock protein, DNAJ-like 2; neural precursor cell expressed, developmentally down-regulated 7; DJ-2; DjA1; HDJ2; HSDJ; hDJ-2;
Gene ID	3301

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mRNA Refseq	NM_001539
Protein Refseq	NP_001530
MIM	602837
UniProt ID	P31689
	