

Recombinant Rat Hspa1a Protein, His-tagged

Cat. No. Hspa1a-1638R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Hspa1a Protein (Met1-Asp641) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Asp641
Description	Predicted to enable several functions, including ATP binding activity; enzyme binding activity; and protein domain specific binding activity. Involved in several processes, including response to ethanol; response to ischemia; and response to unfolded protein. Located in membrane raft. Human ortholog(s) of this gene implicated in several diseases, including Kawasaki disease; autoimmune disease of musculoskeletal system (multiple); cystic fibrosis; schizophrenia (multiple); and toxic shock syndrome. Orthologous to several human genes including HSPA1B (heat shock protein family A (Hsp70) member 1B).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 71.4 kDa Accurate Molecular Mass: 71 kDa
Purity	> 90%

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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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Hspa1a heat shock 70kD protein 1A [Rattus norvegicus (Norway rat)]
Official Symbol	Hspa1a
Synonyms	HSPA1A; heat shock 70kD protein 1A; heat shock 70 kDa protein 1A/1B; HSP70.1/2; HSP70-1/HSP70-2; HSP70.1/HSP70.2; heat shock protein 70-1; heat shock 70 kDa protein 1/2; HSP72; Hspa1; Hspa1b; Hsp70-1;
Gene ID	24472
mRNA Refseq	NM_031971
Protein Refseq	NP_114177

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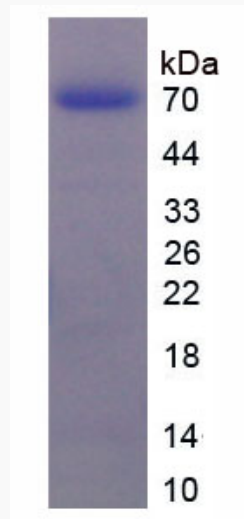
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UniProt ID

P0DMW1



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