

Recombinant Mouse Hspa5 Protein, GST-tagged

Cat. No. Hspa5-970M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hspa5 Protein (Glu20-Leu655) with GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Glu20-Leu655
Description	Enables misfolded protein binding activity and ribosome binding activity. Involved in several processes, including IRE1-mediated unfolded protein response; cerebellum development; and positive regulation of protein ubiquitination. Acts upstream of or within several processes, including cellular response to interleukin-4; negative regulation of transforming growth factor beta receptor signaling pathway; and toxin transport. Located in several cellular components, including cell surface; endoplasmic reticulum; and endoplasmic reticulum-Golgi intermediate compartment. Part of endoplasmic reticulum chaperone complex. Is expressed in several structures, including alimentary system; brain; eye; genitourinary system; and musculoskeletal system. Human ortholog(s) of this gene implicated in dopamine beta-hydroxylase deficiency. Orthologous to human HSPA5 (heat shock protein family A (Hsp70) member 5).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 96.5 kDa; Accurate Molecular Mass: 97 kDa

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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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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	Hspa5 heat shock protein 5 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Hspa5
Synonyms	HSPA5; heat shock protein 5; 78 kDa glucose-regulated protein; GRP-78; XAP-1 antigen; heat shock 70 kDa protein 5; glucose regulated protein, 78 kDa; immunoglobulin heavy chain-binding protein; heat shock 70kD protein 5 (glucose-regulated protein, 78kD); Bip; Sez7; mBiP; Grp78; SEZ-7; Hsce70; AL022860; AU019543; D2Wsu17e; D2Wsu141e;
Gene ID	14828

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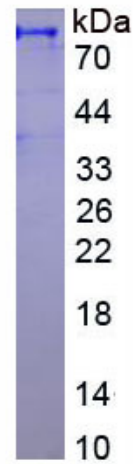
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mRNA Refseq [NM_001163434](#)

Protein Refseq [NP_001156906](#)

UniProt ID [P20029](#)



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