

Recombinant Mouse HSPA8 Protein, His-tagged

Cat. No. HSPA8-49M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse HSPA8 Protein, fused to His-tag, was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Enables ATP hydrolysis activity; phosphatidylserine binding activity; and unfolded protein binding activity. Involved in several processes, including chaperone-mediated protein folding; late endosomal microautophagy; and positive regulation by host of viral genome replication. Acts upstream of or within several processes, including chaperone cofactor-dependent protein refolding; clathrin coat disassembly; and positive regulation of mRNA splicing, via spliceosome. Located in several cellular components, including extracellular exosome; glycinergic synapse; and photoreceptor ribbon synapse. Is active in presynapse. Is expressed in several structures, including 1st branchial arch mandibular component; alimentary system; brain; eye; and forelimb long bone. Human ortholog(s) of this gene implicated in Parkinson's disease and renal hypertension. Orthologous to human HSPA8 (heat shock protein family A (Hsp70) member 8).
Form	Supplied as a 0.2 µm filtered solution in PBS, pH8.0.
Molecular Mass	~74 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMSKGPVAVGIDLGTTYSCVGVFQHGKVEIANDQGN RTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWP

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FMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVP
 AYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAEARNVLIFDLGGGTF
 DVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFAEFKRKHKKDISENKRAVRRL
 RTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALR
 DAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILS
 GDKSENVQDLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSNQPGLI
 QVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSVDKSTGKE
 NKITITNDKGRLSKEDIERMVQEAKEYKADEKQRDKVSSKNSLESYAFNMKATVED
 EKLQGKINDEDKQKILDKCNEIISWLDKNQTAEKEEFEHQKKELEKVCNPIITKLYQSA
 GGMPGGMPGGFPGGGAPPSGGASSGPTIEEVDLELEHHHHHH

Purity >90%

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.25 mg/mL

GENE INFORMATION

Gene Name Hspa8 heat shock protein 8 [Mus musculus (house mouse)]

Official Symbol HSPA8

Synonyms Hsc70; Hsc71; Hsc73; Hsp73; Hspa10; 2410008N15Rik

Gene ID 15481

mRNA Refseq NM_031165

Protein Refseq NP_112442

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UniProt ID

P63017

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