

Product datasheet for **TP509794**

Hspa5 (NM_001163434) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse heat shock protein 5 (Hspa5), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR209794 protein sequence
Red=Cloning site **Green**=Tags(s)

MMKFTVAAALLLLGAVRAEEEDKKEDVGTWVGDLDGTTYSVGVFKNGRVEIANDQGNRITPSYVAFT
PEGERLIGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVEKTKPYIQVDIGGGQTKT
FAPEEISAMVLTKMKETAAYLGKVVTHAVVTPAYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAY
GLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVATNGDTHLGGEDFDQRVMEHFILYKTKTKGDVDR
KDNRAVQKLRREVEKAKRALSSQHARIEIESFFEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDS
DLKKSIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDV
CPLTLGIETVGGVMTKLIPRNTVVPVKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTDFLTGIPP
APRGVPQIEVTFEIDVNGILRVTAEDKGTGNKKNITITNDQNRLTPEEIERMVNDAEKFAEEDKCLKERI
DTRNELESYAYSLKNQIGDKEKLGKLSSEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQP
IISKLYGSGGPPPTGEEDTSEKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 72.4 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C after receiving vials.

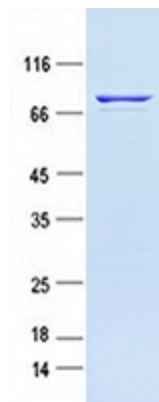
Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq:	NP_001156906
Locus ID:	14828
UniProt ID:	P20029
RefSeq Size:	2534
Cytogenetics:	2 22.94 cM
RefSeq ORF:	1968
Synonyms:	AL022860; AU019543; baffled; Bip; D2Wsu17e; D2Wsu141e; Grp78; Hsce70; mBiP; SEZ-7; Sez7
Summary:	Endoplasmic reticulum chaperone that plays a key role in protein folding and quality control in the endoplasmic reticulum lumen (PubMed:12411443, PubMed:12475965). Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10/ERdj5, probably to facilitate the release of DNAJC10/ERdj5 from its substrate (PubMed:12411443). Acts as a key repressor of the ERN1/IRE1-mediated unfolded protein response (UPR) (By similarity). In the unstressed endoplasmic reticulum, recruited by DNAJB9/ERdj4 to the luminal region of ERN1/IRE1, leading to disrupt the dimerization of ERN1/IRE1, thereby inactivating ERN1/IRE1 (By similarity). Accumulation of misfolded protein in the endoplasmic reticulum causes release of HSPA5/BiP from ERN1/IRE1, allowing homodimerization and subsequent activation of ERN1/IRE1 (By similarity). Plays an auxiliary role in post-translational transport of small presecretory proteins across endoplasmic reticulum (ER). May function as an allosteric modulator for SEC61 channel-forming translocon complex, likely cooperating with SEC62 to enable the productive insertion of these precursors into SEC61 channel. Appears to specifically regulate translocation of precursors having inhibitory residues in their mature region that weaken channel gating.[UniProtKB/Swiss-Prot Function]

Product images:



Purified recombinant protein Hspa5 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.