

Recombinant Human Heat Shock 70kDa Protein 9 (Mortalin), His-tagged

Cat. No. HSPA9-334H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSPA9 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (654 aa, 71 kDa).
Species	Human
Source	E.coli
ProteinLength	47-679 aa
Description	HSPA9 belongs to the heat shock protein 70 family which contains both heat-inducible and constitutively expressed members. HSPA9 was localized to chromosome 5, band q31, a region that is frequently deleted in myeloid leukemias and myelodysplasia (MDS), making it a candidate tumor suppressor gene, which is consistent with the biological function of its murine homologue. Also it inhibits nuclear translocation, transcriptional activation, and control of centrosome-duplication functions of p53.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.5mM DTT, 10% glycerol.
Molecular Weight	71 kDa (654 aa).
Purity	> 95% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MGSSHHHHHH SSGLVPRGSH MASEAIKGA V GIDL GTTNS CVAVMEGKQA KVLENAEGAR TTPSVVAFTA DGERLVGMPA KRQAVTNPNN TFYATKRLIG RRYDDPEVQK DIKNVPFKIV RASNGDAWVE AHGKLYSPSQ IGAFVLMKMK ETAENYLGHT AKNAVITVPA YFNDSQRQAT KDAGQISGLN VLRVINEPTA AALAYGLDKS EDKVIAYVDL GGGTFDISIL EIQKGVFEVK STNGDTFLGG EDFDQALLRH IVKEFKRETG VDLTKDNMAL QRVREAAEKA KCELSSSVQT DINLPYLTMD SSGPKHLNMK LTRAQFEGIV TDLIRRTIAP CQKAMQDAEV SKSDIGEVL VGGMTRMPKV QQTVDLFR APSKAVNPDE AVAIGAAIQG GVLADVTDV LLLDVTPLSL GIETLGGVFT KLINRNTTIP TKKSQVFSTA ADGQTQVEIK VCQGEREMAG DNKLLGQFTL IGIPPAPRGV PQIEVTFDID ANGIVHVS AKDKGTGREQQI VIQSSGGLSK DDENMVKNA EKYAEEDRRK KERVEAVNMA EGIIHDTETK MEEFKDQLPA DECNKLKEEI SKMRELLARK DSETGENIRQ AASSLQQASL KLFEMAYKKM ASEREGSGSS GTGEQKEDQK EEKQ
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	HSPA9
Synonyms	HSPA9; heat shock 70kDa protein 9 (mortalin); CSA; MOT; MOT2; GRP75; PBP74; mot-2; HSPA9B; MGC4500; MTHSP75; HSPA9; Mortalin; mortalin-2; mthsp75; p66-mortalin; 75 kDa glucose regulated protein; 75 kDa glucose-regulated protein; GRP 75; Heat shock 70 kDa protein 9; Peptide-binding protein 74; heat shock 70kD protein 9; heat shock 70kD protein 9B; heat shock 70kDa protein 9; heat shock 70kDa protein 9 (mortalin); heat shock 70kDa protein 9B (mortalin-2); mortalin, perinuclear;

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stress-70 protein, mitochondrial; peptide-binding protein 74.

Gene ID

3313

mRNA Refseq

NM_004134.5

Protein Refseq

NP_004125.3

MIM

600548

UniProt ID

P38646

**Chromosome
Location**

5q31.1

Function

ATP binding; nucleotide binding;unfolded protein binding.

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