



## Product Datasheet

<b>Product Name</b>	Heat Shock 70kDa Protein 9 Human Recombinant
<b>Cata No</b>	CB501411
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	Mortalin, GRP75, MOT2, GSPA9B, PBP74, MOT-2, MTHSP75, Stress-70 protein mitochondrial, 75 kDa glucose-regulated protein, GRP 75, Heat shock 70 kDa protein 9, Peptide-binding protein 74, MOT, HSPA9, HSPA9B, CSA, MGC4500.

### Description

HSPA9 is part of the heat shock protein 70 family which contains both heat-inducible and constitutively expressed members that are also called heat-shock cognate proteins. HSPA9 encodes a heat-shock cognate protein that is involved in the control of cell proliferation and acts as a chaperone. HSPA9 was restricted to chromosome 5, band q31, a region that is often 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. HSPA9 suppresses nuclear translocation, transcriptional activation, and control of centrosome-duplication functions of p53. Recombinant Human HSPA9 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 654 amino acids (47-679) and having a molecular mass of 71 kDa.

HSP9A is expressed with a 20 amino acid His tag fused at N-Terminus and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Formulation

The HSPA9 protein solution contains 20mM

Tris-HCl, pH-8, 10% glycerol and 0.5mM DTT.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Avoid multiple freeze-thaw cycles.**

### Sequence

**GSSHHHHH SSSLVPRGSH** MASEAIKGAV  
VGIDLTTNS CVAVMGKQA KVLNAEGAR  
TTPSVVAFTA DGERLVGMPA KRQAVTNPNN  
TFYATKRLIG RRYDDPEVQK DIKNVPFKIV  
RASNGDAWVE AHGKLYSPSQ IGAFVLMKMK  
ETAENYLGHY AKNVITVPA YFNDSQRQAT  
KDAGQISGLN VLRVINEPTA AALAYGLDKS  
EDKVIAYVDL GGGTFDISIL EIQKGVFEVK  
STNGDTFLGG EDFDQALLRH IVKEFKRETG  
VDLTKDNMAL QRVREAAEKA KCELSVVQAT  
DINLPYLTMD SSGPKHLNMK LTRAQFEGIV  
TDLIRRTIAP CQKAMQDAEV SKSDIGEVL  
VGGMTRMPKV QQTVDLDFGR APSKAVNPDE  
AVAIGAAIQG GVLGADVTDV LLLDVTPLSL  
GIETLGGVFT KLINRNTTIP TKKSQVFSTA  
ADGQTQVEIK VCQGEREMAG DNKLLGQFTL  
IGIPPAPRGV PQIEVTFDID ANGIHVSAK  
DKGTGREQQI VIQSSGGLSK DDIIENMVKNA  
EKYAEEDRRK KERVEAVNMA EGIHDTETK  
MEEFKDQLPA DECNKLKEEI SKMRELLARK

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DSETGENIRQ AASSLQQASL KLFEMAYKKM  
ASEREGSGSS GTGEQKEDQK EEKQ.

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**Applications:**

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