

# Recombinant human GRP75/HSPA9B protein

Catalog Number: HSP0901

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

47-679aa

**UniProt No.**

P38646

**NCBI Accession No.**

NP\_004125.3

**Alternative Names**

Heat shock 70kDa protein 9, Mortalin, GRP75, mot-2, HSPA9B, PBP74, CSA, HSPA9, Heat shock 70kDa protein 9, Heat shock 70kDa protein 9, heat shock 70kDa protein 9 (mortalin), heat shock 70kDa protein 9B (mortalin-2), mthsp75

## PRODUCT SPECIFICATION

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**Molecular Weight**

71 kDa (654aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.5mM DTT, 10% glycerol

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**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

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activation, and control of centrosome-duplication functions of p53. Recombinant human HSPA9 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

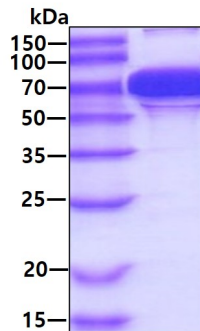
<MGSSHHHHHH SSGLVPRGSH M>ASEAIKGAV VGIDLGTTNS CVAVMEGKQA KVLNAEGAR TTPSVVAFTA  
DGERLVGMPA KRQAVTNPNN TFYATKRLIG RRYDDPEVQK DIKNVPFKIV RASNGDAWVE AHGKLYSPSQ IGAFVLMKMK  
ETAENYLGHT AKNAVITVPA YFNDSQRQAT KDAGQISGLN VLRVINEPTA AALAYGLDKS EDKVIAYVDL GGGTFDISIL  
EIQKGVFEVK STNGDTFLGG EDFDQALLRH IVKEFKRETG VDLTKDNMAL QRVREAAEKA KCELSVVQQT DINLPYLTMD  
SSGPKHLNMG LTRAQFEGIV TDLIRRTIAP CQKAMQDAEV SKSDIGEVI VGGMTRMPKV QQTVDLFR APSKAVNPDE  
AVAIGAAIQG GVLADVDV LLLDVTPLSL GIETLGGVFT KLINRNTTIP TKKSQVFSTA ADGQTQVEIK VCQGEREMAG  
DNKLLGQFTL IGIPPAPRGV PQIEVTFDID ANGIVHVS AKDKGTGREQQI VIQSSGGLSK DDIIENMVKNA EKYAEEDRRK  
KERVEAVNMA EGIIHDTETK MEEFKDQLPA DECNKLKEEI SKMRELLARK DSETGENIRQ AASSLQQASL KLFEMAYKKM  
ASEREGSGSS GTGEQKEDQK EEKQ

## General References

Xie H., et al. (2000) *Leukemia*. 14(12):2128-34  
Deocaris CC., et al. (2007) *Ann N Y Acad Sci*. 1119:165-75

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.