
Product Data Sheet

Product Name: HSPA9 Human
 Cat. No.: GP25110
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MASEAIKGAV VGIDLGTTNS CVAVMEGKQA KVLNAEGAR TTPSVVAFTA DGERLVGMPA KRQAVTNPNN TFYATKRLIG RRYDDPEVQK DIKNVPFKIV RASNGDAWVE AHGKLYSPSQ IGAFVLMKMK ETAENYLGHY AKNVITVPA YFNDSQRQAT KDAGQISGLN VLRVINEPTA AALAYGLDKS EDKVIAYVDL GGGTFDISIL EIQKGVFEVK STNGDTFLGG EDFDQALLRH IVKEFKRETG VDLTKDNMAL QRVREAAEKA KCELSVVQQT DINLPYLTMD SSGPKHLNMK LTRAQFEGIV TDLIRRTIAP CQKAMQDAEV SKSDIGEVL VGGMTRMPKV QQTVQDLFGR APSKAVNPDE AVAIGAAIQG GVLAGDVTDV LLLDVTPLSL GIETLGGVFT KLINRNTTIP TKKSQVFSTA ADGQTQVEIK VCQGEREMAG DNKLLGQFTL IGIPPAPRGV PQIEVTFDID ANGIVHVS AKDKGTGREQQI VIQSSGGLSK DDIENMVKNA EKYAEEDRRK KERVEAVNMA EGIHDTETK MEEFKDQLPA DECNKLKEEI SKMRELLARK DSETGENIRQ AASSLQQASL KLFEMAYKKM ASEREGSGSS GTGEQKEDQK EEKQ.</p>		
Formulation	The HSPA9 protein solution contains 20mM Tris-HCl, pH-8, 10% glycerol and 0.5mM DTT.		

Introduction

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

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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.

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.

Background

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. HSPA9 is expressed with a 20 amino acid His tag fused at N-Terminus and purified by proprietary chromatographic techniques.

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