

Recombinant Human HspA9 (Hsp70 protein 9)

ORDERING INFORMATION

Catalog Number	Size
11118P-10	10ug
11118P-50	50ug
11118P-1000	1000ug

Formulation: Sterile-filtered colorless solution in 20mM Tris-Hcl, pH 8.0, 0.5mM DTT and 10% glycerol. Purified by proprietary chromatographic techniques.

BACKGROUND

HspA9, a member of the Hsp70 family, encodes a heat-shock cognate protein that is involved in the control of cell proliferation and acts as a chaperone. HspA9 is located on chromosome 5, band q31, a region that is often deleted in myeloid leukemias and myelodysplasia, making it a candidate tumor suppressor gene. HspA9 suppresses nuclear translocation, transcriptional activation, and control centrosome-duplication functions of p53.

DESCRIPTION

Recombinant human HspA9 produced in *E. coli* is a single, non-glycosylated polypeptide containing 654 amino acids (aa 47-679) with a molecular weight of 71kDa. It is expressed with a 20-amino acid His-tag at the N-terminus.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS-PAGE.

Accession number: P38646

Amino acid sequence:

GSSHHHHHH SGLVPRGSH MASEAIKGAV
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 SSGPKHLNMK LTRAQFEGIV
TDLIRRTIAP CQKAMQDAEV SKSDIGEVL
VGGMTRMPKV QQTVDLDFGR APSKAVNPDE
AVAIGAAIQG GVLAGDVTDV LLLDVTPLSL
GIETLGGVFT KLINRNTTIP TKKSQVFSTA
ADGQTQVEIK VCQGEREMAG DNKLLGQFTL
IGIPPAPRGV PQIEVTFDID ANGVHVSAG
DKGTGREQQI VIQSSGGLSK DDIIENMVKNA
EKYAEEDRRK KERVEAVNMA EGIHDTETK
MEEFKDQLPA DECNKLKEEI SKMRELLARK
DSETGENIRQ AASSLQQASL KLFEMAYKMM
ASEREGSGSS GTGEQKEDQK EEKQ.

STORAGE AND STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks. Store at or below -20°C for longer periods of time. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.