Recombinant Human HspA5 (Hsp70 protein 5)

ORDERING INFORMATION

Catalog Number	Size
11117P-5	5ug
11117P-25	25ug
11117P-1000	1000ug

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

BACKGROUND

HspA5, a member of the Hsp70 family, plays a role in folding and assembling of proteins in the endoplasmic reticulum by monitoring protein transport through the cell. HspA5 is a stress response protein that is induced by conditions that adversely affect endoplasmic reticulum function. HspA5 is essential to maintenance of cell homeostasis and prevention of apoptosis.

DESCRIPTION

Recombinant human HspA5 produced in E. coli is a single, non-glycosylated polypeptide containing 640 amino acids (aa 2-650) with a molecular weight of 70kDa. It is fused to an 8-amino acid His-tag at the C-terminus.

SPECIFICATION SUMMARY

Source: *Escherichia coli*
Purity: Greater than 90% as determined by SDS-PAGE.
Accession number: P11021
Amino acid sequence:
EEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIIANDQG NRITPSYVAF TPEGERLIGD AAKNQLTSNP ENTVFDAKRL IGRTWNDPSV QQDIKFLPFK VVEKKTKPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE AYLGKKVTHA VVTVPAYFND AQRQATKDAG TIAGLNVMRI INEPTAAAIA YGLDKREGEK NILVFDLGGG TFDVSLLTID NGVFEVVATN GDTHLGGEDF DQRVMEHFIK LYKKKTGKDV RKDNRAVQKL RREVEKAKRA LSSQHQARIE IESFYEGEDF SETLTRAKFE ELNMDLFRST MKPVQKVLED SDLKKSDIDE IVLVGGSTRI PKIQQLVKEF FNGKEPSRGI NPDEAVAYGA AVQAGVLSGD QDTGDLVLLD VCPLTLGIET VGGVMTKLIP RNTVVPTKKS QIFSTASDNQ PTVTIKVYEG ERPLTKDNHL LGTFDLTGIP PAPRGVPQIE VTFEIDVNGI LRVTAEDKGT GNKNKITITN DQNRLTPEEI ERMVNDAEKF AEEDKKLKER IDTRNELESY AYSLKNQIGD KEKLGGKLSS EDKETMEKAV EEKIEWLESH QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPPTGEEDT AE**LEHHHHHH**

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.

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