Recombinant Human HspA5 (Hsp70 protein 5)

ORDERING INFORMATION

Catalog nos.:	**11117P-5**	5ug
	11117P-20	20ug
	11117P-1000	1000ug

Format: Produced in *E. coli* as a single, glycosylated polypeptide containing 640 amino acids (aa 20-650) with a molecular weight of 71kDa. It is fused to an 8-amino acid His-tag at the C-terminus.

Sterile-filtered colorless solution (1mg/ml) in 20mM Tris-Hcl, pH 8.0, 2mM DTT, 200mM NaCl,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.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 90% as determined by SDS-PAGE.

Accession number: P11021.2

Amino acid sequence:

MEEDKKEDVG 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 AELEHHHHHH.

STORAGE AND STABILITY

Store at 4^{o}C if entire vial will be used within 2-4 weeks. Store at or below -20^{o}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 intended for therapeutic or diagnostic procedures.

QED Bioscience, Inc.
10919 Technology Place, Suite C
San Diego, CA 92127

Toll Free 800.929.2114
Phone 858.675.2405
Fax 858.592.1509
info@qedbio.com