

32-5335: Recombinant Human Heat Shock 70kDa protein 5

Alternative Name :

BIP,MIF2,GRP78,FLJ26106,HSPA5,78 kDa glucose-regulated protein,GRP 78,Heat shock 70 kDa protein 5,Immunoglobulin heavy chain-binding protein,Endoplasmic reticulum lumenal Ca(2+)-binding protein grp78.

Description

Source : Escherichia Coli. Recombinant Human HSPA5 produced in E.Coli is a single,non-glycosylated polypeptide chain containing 640 amino acids (20-650 a.a.) and having a molecular mass of 71kDa. HSPA5 human recombinant is fused to an 8 amino acid His Tag at C-terminus and purified by conventional chromatography techniques. Once Chinese hamster K12 cells are starved from glucose, the synthesis of GRP (glucose-regulated protein) expressed. HSPA5 also called BiP, is part of the HSP70 family and plays a role in the folding and assembly of proteins in the endoplasmic reticulum. HSPA5 plays a key role in monitoring protein transport through the cell. HSPA5 is a stress response protein which is induced by agents or conditions that adversely affect endoplasmic reticulum function. HSPA5 is crucial for the proper glycosylation, folding as well as for the maintenance of cell homeostasis and the prevention of apoptosis. HSPA5 is differentially expressed in the dorsolateral prefrontal cortex from patients with schizophrenia. HSPA5 guides posttranslational hepatitis B virus large envelope protein import into the mammalian ER. HSPA5 actively regulates multiple malignant phenotypes, including cell growth, migration, and invasion.

Product Info

Amount :

25 µg

Purification :

Greater than 90.0% as determined by SDS-PAGE.

Content :

The HSPA5 protein solution contains 20mM Tris-HCl, pH-8 & 10% Glycerol.

Storage condition :

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.

Amino Acid :

MEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIANDQG NRITPSYVAF TPEGERLIGD AAKNQLTSNP
ENTVFDKRL IGRTWNDPSV QQDIKFLPFK VVEKTKPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE
AYLGKKVTHA VVTVPAYFND AQRQATKDAG TIAGLNMVRI INEPTAAIA YGLDKREGEK NILVFDLGGG
TFDVSLLTID NGVFEVVATN GDTHLGGEDF DQRVMEHFIK LYKKKTGKDV RKNRAVQKL RREVEKAKRA
LSSQHQARIE IESFYEGEDF SETLTRAKFE ELNMDLFRST MKPVQKVLED SDLKSDIDE IVLVGGSTRI
PKIQQLVKEF FNGKEPSRGI NPDEAVAYGA AVQAGVLSGD QDTGDLVLLD VCPLTLGIET VGGVMTKLIP
RNTVVPTKKS QIFSTASDNQ PVTIKVYEG ERPLTKDNHL LGTFDLTGIP PAPRGVPQIE VTFEIDVNGI
LRVTAEDKGT GNKNKITITN DQNRLTPEEI ERMVNDAEKF AEEDKCLKER IDTRNELESY AYSLKNQIGD
KEKLGKLS EDKETMEKAV EEKIEWLESH QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPTGEEDT
AELEHHHHHH.

