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# HSPA5 Human

**Catalog #:**HYPS-051

For research use only.

**Description:**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 convential chromatogrpahy techniques.

**Synonyms:**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.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIIANDQG NRITPSYVAF TPEGERLIGD AAKNQLTSNP ENTVFDAKRL IGRTWNDPSV QQDIKFLPFK VVEKKTKPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE AYLGKKVTHA VVTVPAYFND AQRQATKDAG TIAGLNVMRIINEPTAAAIA YGLDKREGEK NILVFDLGGG TFDVSLLTID NGVFEVVATN GDT

**Purity:**Greater than 90.0% as determined by SDS-PAGE.

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

**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.

**Usage:**
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**Introduction:**
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 throµgh 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.

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