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32-13521: HSPA5 Mouse

Alternative Name : 78 kDa glucose-regulated protein, Â GRP-78, Heat shock 70 kDa protein 5, Immunoglobulin heavy chain-binding protein, Bip, Hspa5,Â Grp78, HSPA5,Â Hsce70.

Description

Source: Escherichia Coli.
Sterile Filtered clear solution.
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.Â 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.
HSPA5 Mouse Â Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 659 amino acids (20-655 a.a) and having a molecular mass of 72.9kDa. HSPA5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	HSPA5 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4) and 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 :	MGSSHHHHHH SSGLVPRGSH MGSEEEDKKE DVGTVVGIDL GTTYSCVGVF KNGRVEIIAN DQGNRITPSY VAFTPEGERL IGDAAKNQLT SNPENTVFDA KRLIGRTWND PSVQQDIKFL PFKVVEKKTK PYIQVDIGGG QTKTFAPEEI SAMVLTKMKE TAEAYLGKKV THAVVTVPAY FNDAQRQATK DAGTIAGLNV MRIINEPTAA AIAYGLDKRE GEKNILVFDL GGGTFDVSLL TIDNGVFEVV ATNGDTHLGG EDFDQRVMEH FIKLYKKKTG KDVRKDNRAV QKLRREVEKA KRALSSQHQA RIEIESFFEG EDFSETLTRA KFEELNMDLF RSTMKPVQKV LEDSDLKKSD IDEIVLVGGS TRIPKIQQLV KEFFNGKEPS RGINPDEAVA YGAAVQAGVL SGDQDTGDLV LLDVCPLTLG IETVGGVMTK LIPRNTVVPT KKSQIFSTAS DNQPTVTIKV YEGERPLTKD NHLLGTFDLT GIPPAPRGVP QIEVTFEIDV NGILRVTAED KGTGNKNKIT ITNDQNRLTP EEIERMVNDA EKFAEEDKKL KERIDTRNEL ESYAYSLKNQ IGDKEKLGGK LSSEDKETME KAVEEKIEWL ESHQDADIED FKAKKKELEE IVQPIISKLY GSGGPPPTGE EDTSEKDEL

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