9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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HSPA5 Mouse

Heat Shock 70kDa protein 5 Recombinant Mouse
RCP1077

Product Overview

Name	HSPA5 Mouse
Description	
Heat Shock 70kDa protein 5 Recombinant Mouse	
Accession (Primary)	P20029
Synonyms	
78 kDa glucose-regulated protein, GRP-78, Heat shock 70 kDa protein 5, Immunoglobulin heavy chain-binding protein, Bip, Hspa5, Grp78, HSPA5, Hsce70.	
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 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
HSPA5 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4) and 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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MGS EEEDKKE 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

Precautions

HSPA5 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P20029)