

HSPA5 Human

*Heat Shock 70kDa Protein 5 Human Recombinant
RCP1079*

Product Overview

Name HSPA5 Human

Description

Heat Shock 70kDa Protein 5 Human Recombinant

Accession (Primary) [P11021](#)

Synonyms

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

Introduction

Binding immunoglobulin protein (BiP or HSPA5) is a member of the family of ~70kDa heat shock proteins (HSP 70). HSPA5 is a stress response protein which is induced by agents or conditions that adversely affect endoplasmic reticulum (ER) function. HSPA5 is crucial for the proper glycosylation, folding as well as for the maintenance of cell homeostasis and the prevention of apoptosis.

Source

Hi-5 Cells.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The HSPA5 protein solution (1mg/ml) 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 200mM NaCl.

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

MEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIANDQG NRITPSYVAF TPEGERLIGD AAKNQLTSNP
ENTVFDKRL IGRTWNDPSV QQDIKFLPFK VVEKKTTPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE
AYLGKKVTHA VVTVPAYFND AQRQATKDAG TIAGLNMRI INEPTAAAIA YGLDKREGEK NILVFDLGGG
TFDVSLTID NGVFEVVATN GDTHLGGEDF DQRVMEHFIK LYKKKTGKDV RKNRAVQKL RREVEKAKRA

LSSQHQARIE IESFYEGEDF SETLTRAKFE ELNMDLFRST MKPVQKVLED SDLKSDIDE IVLVGGSTRI
PKIQQLVKEF FNGKEPSRGI NPDEAVAYGA AVQAGVLSGD QDTGDLVLLD VCPLTLGIET VGGVMTKLIP
RNTVVPTKKS QIFSTASDNQ PTVTIKVYEG ERPLTKDNHL LGTFDLTGIP PAPRGVPQIE VTFEIDVNGI
LRVTAEDKGT GNKNKITITN DQNRLTPEEI ERMVNDAEKF AEEDKCLKER IDTRNELESY AYSLKNQIGD
KEKLGKGLSS EDKETMEKAV EEKIEWLESH QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPPTGEEDT AE
LEHHHHHH .

Precautions

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

Target Information: ([P11021](#))