
Product Data Sheet

Product Name: HSPA5 Human, Hi-5

Cat. No.: GP25105

Batch No.: 1

Product Data

Purity >98%

Source Hi-5 Cells.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

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.

Amino Acid Sequence
 MEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIIANDQG NRITPSYVAF
 TPEGERLIGD AAKNQLTSNP ENTVFDKRL IGRTWNDPSV QQDIKFLPFK
 VVEKKTTPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE AYLKGGVTHA
 VVTVPAYFND AQRQATKDAG TIAGLNMRI INEPTAAAIA YGLDKREGEK
 NILVFDLGGG TFDVSLTID NGVFEVVATN GDTHLGGEDF DQRVMEHFIF
 LYKKTGKDV RKDNRAVQKL 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 ERMVNDAEFK AEEDKCLKER IDTRNELESY
 AYSLKNQIGD KEKLGKLS EDKETMEKAV EEKIEWLESH QDADIEDFKA
 KKKELEEIVQ PIISKLYGSA GPPPTGEEDT AELEHHHHHH.

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

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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homeostasis and the prevention of apoptosis.

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.

Background

HSPA5 produced in Hi-5 cells is a single, glycosylated polypeptide chain containing 640 amino acids (20-650 a.a.) and having a molecular mass of 71kDa. HSPA5 is fused to an 8 amino acid His Tag at C-Terminus and purified by proprietary chromatographic techniques.

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