
Product Data Sheet

Product Name: HSPA5 (19-654) Human

Cat. No.: GP25106

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
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	<p>MGSSHHHHHH SGLVPRGSH MGSEEDKKE DVGTVVGIDL GTTYSCVGVF KNGRVEIIAN DQGNRITPSY VAFTPEGERL IGDAAKNQLT SNPENTVFDA KRLIGRTWND PSVQQDIKFL PFKVVEKTK PYIQVDIGGG QTKTFAPEEI SAMVLTKMKE TAEAYLGKKV THAVVTPAY FNDAQRQATK DAGTIAGLNV MRIINEPTAA AIAYGLDKRE GEKNILVFDL GGGTFDVSLT TIDNGVFEVV ATNGDTHLGG EDFDQRMVMEH FIKLYKKKTG KDVRKDNRAV QKLRREVEKA KRALSSQHQA RIEIESFYEG EDFSETLTRA KFEELNMDLF RSTMKPVQKV LEDSDLKKS IDEIVLVGGS TRIPKIQQLV KEFFNGKEPS RGINPDEAVA YGAAVQAGVL SGDQDTGDLV LLDVCPLTLG IETVGGVMTK LIPRNTVVPT KKSQIFSTAS DNQPTVTIKV YEGERPLTKD NHLLGTFDLT GIPPAPRGVP QIEVTFEIDV NGILRVTAED KGTGNKNKIT ITNDQNRLTP EEIERMVNDA EKFAEEDKKL KERIDTRNEL ESYAYSLKNQ IGDKEKLGK LSEDKETME KAVEEKIEWL ESHQDADIED FKAKKKELEE IVQPIISKLY GSAGPPPTGE EDTAEKDEL.</p>		
Formulation	The HSPA5 (19-654) solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 20% glycerol.		

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

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

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crucial for the proper glycosylation, folding as well as for the maintenance of cell 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 (19-654) Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 659 amino acids (19-654) and having a molecular mass of 72.9kDa. HSPA5 (19-654) is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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