

## Heat Shock 70kDa protein 5 Recombinant Protein | HSPA5 recombinant protein

Recombinant Human Heat Shock 70kDa protein 5, Hi-5

|                              |                           |
|------------------------------|---------------------------|
| CATALOG #<br><b>AAA38874</b> | HOST<br><b>Hi-5 Cells</b> |
|------------------------------|---------------------------|

### PRODUCT SYNONYMS

Heat Shock 70kDa protein 5; Recombinant Human Heat Shock 70kDa protein 5; Hi-5; HSPA5 Human; Heat shock 70kDa protein 5 Human Recombinant; 78 kDa glucose-regulated protein; GRP-78; Endoplasmic reticulum lumenal Ca(2+)-binding protein grp78; Heat shock 70 kDa protein 5; Immunoglobulin heavy chain-binding protein; BiP; HSPA5; GRP78; MIF2; FLJ26106; HSPA5 Hi-5; HSPA5 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Hi-5 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity/Purification     | Greater than 90.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format             | The HSPA5 protein solution (1mg/ml) 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT and 200mM NaCl. Sterile filtered colorless solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Concentration           | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence                | MEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIIANDQG NRITPSYVAF TPEGERLIGD AAKNQLTSNP ENTVFDAKRL IGRTWNDPSV QQDIKFLPFK VVEKTKPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE AYLGKKVTHA VVTPAYFND AQRQATKDAG TIAGLNMRI INEPTAAIA YGLDKREGEK NILVFDLGGG TFDVSLTID NGVFEVVATN GDTHLGGEDF DQRMVMEFIK LYKKKTGKDV RKDNRAVQKL 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 ERMVNDAEFK AEEDKKLKER IDRNELESY AYSLKNQIGD KEKLGGLSS EDKETMEKAV EEKIEWLESH QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPPTGEEDT AE <u>LEHHH HHH</u> |
| Preparation and Storage | Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for HSPA5 recombinant protein | <p><b>Description:</b> 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.</p> <p><b>Introduction:</b> 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.</p> |
| Product Categories/Family for HSPA5 recombinant protein   | Heat Shock Proteins; Recombinant Proteins; Heat Shock Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### NCBI AND UNIPROT INFORMATION

|             |          |
|-------------|----------|
| NCBI GI #   | 16507237 |
| NCBI GeneID | 3309     |

|                                  |                                                                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_005338.1</a>                                                                                                                                                                 |
| NCBI GenBank Nucleotide #        | <a href="#">NM_005347.4</a>                                                                                                                                                                 |
| UniProt Accession #              | <a href="#">P11021</a> ; <a href="#">Q2EF78</a> ; <a href="#">Q9NPF1</a> ; <a href="#">Q9UK02</a> ; <a href="#">B0QZ61</a>                                                                  |
| Molecular Weight                 | 72,333 Da                                                                                                                                                                                   |
| NCBI Official Full Name          | 78 kDa glucose-regulated protein                                                                                                                                                            |
| NCBI Official Synonym Full Names | heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)                                                                                                                               |
| NCBI Official Symbol             | HSPA5                                                                                                                                                                                       |
| NCBI Official Synonym Symbols    | BIP; MIF2; GRP78; HEL-S-89n                                                                                                                                                                 |
| NCBI Protein Information         | 78 kDa glucose-regulated protein; endoplasmic reticulum lumenal Ca(2+)-binding protein grp78; epididymis secretory sperm binding protein Li 89n; immunoglobulin heavy chain-binding protein |
| UniProt Protein Name             | 78 kDa glucose-regulated protein                                                                                                                                                            |
| UniProt Gene Name                | <b>HSPA5</b>                                                                                                                                                                                |
| UniProt Synonym Gene Names       | GRP78; GRP-78; BiP                                                                                                                                                                          |
| UniProt Entry Name               | GRP78_HUMAN                                                                                                                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/hspa5-recombinant-protein-hi-5-cells/38874>