



Recombinant Human Hspa5 Protein Product Manual

1. Product Basic Information

Product No.: REP07162

Protein Name: 78 Kda Glucose-Regulated Protein (Hspa5)

Aliases: BIP; GRP78; HEL-S-89n; 78 kDa glucose-regulated protein; glucose-regulated protein, 78kDa; endoplasmic reticulum chaperone BiP

UniProt ID: P20029

UniProt Link: <https://www.uniprot.org/uniprotkb/P20029/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (19-654aa)

Molecular Weight: 76.4 kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (19-654aa)

EEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERLI
GDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVVEKTKPYIQVDIG
GGQTKTFAPEEISAMVLTKMKETAAYLGKKVTHAVVTVPAYFNDAQRQATKDAGT
IAGLNMVRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATN
GDTHLGGEDFDQVRMEHFILYKKKTGKDVRKDNRAVQKLRRVEKAKRALSSQH
QARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVL
VGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAGVLSGDQDQDGLVLL
DVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKD
NHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLT
PEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSDK
ETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTA
EKDEL

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements)

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human Hspa5 full length of mature protein protein (19-654aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. Hspa5, also known as BIP or GRP78 or HEL-S-89n, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.