

# Recombinant Full Length Human HSPA5 Protein, GST-tagged

**Cat. No.** HSPA5-3897HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human HSPA5 full-length ORF ( AAH20235.1, 19 a.a. - 654 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	19-654 amino acids
<b>Description</b>	<p>When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins (GRPs), is markedly increased. Hendershot et al. (1994) [PubMed 8020977] pointed out that one of these, GRP78 (HSPA5), also referred to as immunoglobulin heavy chain-binding protein (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER). Because so many ER proteins interact transiently with GRP78, it may play a key role in monitoring protein transport through the cell.[supplied by OMIM</p>
<b>Molecular Mass</b>	95.7 kDa
<b>AA Sequence</b>	<pre> EEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERLI GDAAKNQLTSNPENTVFDAKRLIGRTWNDPSVQQDIKFLPFKVVVEKTKPYIQVDIG GGQTKTFAPEEISAMVLTKMKETAAYLGKVVTHAVVTPAYFNDAQRQATKDAGTI AGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNG DTHLGGEDFDQRVMEHFILYKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHQ </pre>

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ARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLESDLLKSDIDEIVLVG  
 GSTRIPIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVC  
 PLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLL  
 GTFDLTGIPPAPRGVPGQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIE  
 RMVNDAEKFAEEDKCLKERIDTRNELESYAYSLKNQIGDKEKLGGLSSEDKETMEK  
 AVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	HSPA5 heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa) [ Homo sapiens ]
<b>Official Symbol</b>	HSPA5
<b>Synonyms</b>	HSPA5; heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa); GRP78, heat shock 70kD protein 5 (glucose regulated protein, 78kD); 78 kDa glucose-regulated protein; BiP; immunoglobulin heavy chain-binding protein; endoplasmic reticulum luminal Ca(2+)-binding protein grp78; BIP; MIF2; GRP78; FLJ26106;
<b>Gene ID</b>	3309

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mRNA Refseq	NM_005347
Protein Refseq	NP_005338
MIM	138120
UniProt ID	P11021

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