

## Product datasheet for **AR09764PU-N**

### HSPA5 / GRP78 (20-650, His-tag) Human Protein

#### Product data:

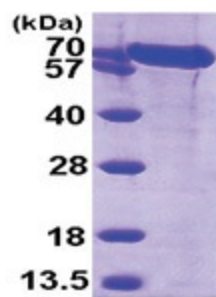
Product Type:	Recombinant Proteins
Description:	HSPA5 / GRP78 (20-650, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	Hi-5 insect
Expression cDNA Clone or AA Sequence:	MEEDKKEDVG TVVGIDLGTT YSCVGVFKNG RVEIANDQG NRITPSYVAF TPEGERLIGD AAKNQLTSNP ENTVFDKRL IGRTWNDPSV QQDIKFLPFK VVEKTKPYI QVDIGGGQTK TFAPEEISAM VLTKMKETAE AYLGGKVTHA VVTPAYFND AQRQATKDAG TIAGLNVMRI INEPTAAAIA YGLDKREGEK NILVFDLGGG TFDVSLTID NGVFEVATN GDTHLGGEDF DQRVMEHFIK LYKKKTGKDV RKNRAVQKL RREVEKAKRA LSSQHQARIE IESFYEGEDF SETLTRAKFE ELNMDLFRST MKPVQKVLED SDLKKSIDE IVLVGGSTRI PKIQQLVKEF FNGKEPSRGI NPDEAVAYGA AVQAGVLSGD QDTGDLVLLD VCPLTLGIET VGGVMTKLIP RNTVWPTKKS QIFSTASDNQ PTVTIKVYEG ERPLTKDNHL LGTFDLTGIP PAPRGVPQIE VTFEIDVNGI LRVTAEDKGT GNKNKITITN DQNRLTPEEI ERMVNDAEFK AEEDKCLKER IDTRNELESY AYSLKNQIGD KEKLGGLSS EDKETMEKAV EEKIEWLESH QDADIEDFKA KKKELEEIVQ PIISKLYGSA GPPPTGEEDT <u>AELEHHHHHH</u>
Tag:	His-tag
Predicted MW:	71 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2 mM DTT, 200 mM NaCl
Endotoxin:	< 1 EU per 1ug of protein (determined by LAL method)
Preparation:	Liquid purified protein
Protein Description:	Recombinant human HSPA5 (BIP) protein, fused to His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography.



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<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_005338</a>
<b>Locus ID:</b>	3309
<b>UniProt ID:</b>	<a href="#">P11021</a>
<b>Cytogenetics:</b>	9q33.3
<b>Synonyms:</b>	78 kDa glucose-regulated protein, Heat shock 70 kDa protein 5, BiP
<b>Summary:</b>	The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. This protein localizes to the lumen of the endoplasmic reticulum (ER) where it operates as a typical HSP70 chaperone involved in the folding and assembly of proteins in the ER and is a master regulator of ER homeostasis. During cellular stress, as during viral infection or tumorigenesis, this protein interacts with the transmembrane stress sensor proteins PERK (protein kinase R-like endoplasmic reticulum kinase), IRE1 (inositol-requiring kinase 1), and ATF6 (activating transcription factor 6) where it acts as a repressor of the unfolded protein response (UPR) and also plays a role in cellular apoptosis and senescence. Elevated expression and atypical translocation of this protein to the cell surface has been reported in viral infections and some types of cancer cells. At the cell surface this protein may facilitate viral attachment and entry to host cells. This gene is a therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers. [provided by RefSeq, Jul 2020]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Antigen processing and presentation, Prion diseases

### Product images:



15% SDS-PAGE (3ug)