

Recombinant Full Length Human HSPA5 Protein, His&Avi tagged, Biotinylated

Cat. No. HSPA5-02HB **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated recombinant Full Length Human HSPA5 Protein with His&Avi tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	19-654 aa
Conjugation/Label	Biotin
Description	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

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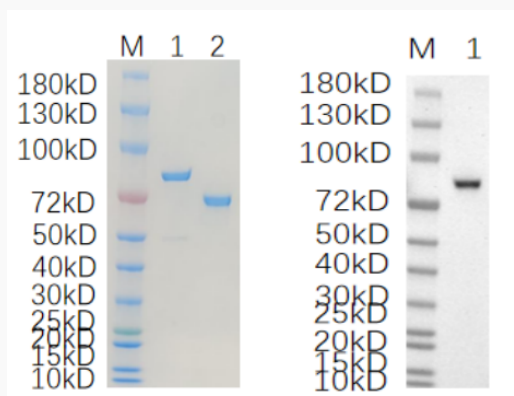
 45-1 Ramsey Road, Shirley, NY 11967, USA

	therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers.
Form	Sterile PBS, pH7.4
Molecular Mass	74 kDa
AASequence	GLNDIFEAQKIEWHEHHHHHHHHHEEEDKKEDVGTVVGIDLGTTYSCVGVFKNGR VEIANDQGNRITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDKRLIGRTWNDPS VQQDIKFLPFKVVEKTKPYIQVDIGGGQTKTFAPEEISAMVLTKMKETAAYLGKKV THAVVTVPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVF DLGGGTFDVSLLTIDNGVFEVVATNGDTHLGGEDFDQRMVMEHFIKLYKKKTGKDVR KDNRAVQKLRREVEKAKRALSSQHQAIEIESFYEGEDFSETLTRAKFEELNMDLFR STMKPVQKVLEDSDLKKSDIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAV AYGAAVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFS TASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRV TAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYA YSLKNQIGDKEKLGGKLSSSEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIV QPIISKLYGSAGPPPTGEEDTAEKDEL
Endotoxin	< 1 EU/mg by LAL
Purity	>95% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.227 mg/mL by BCA
Labeling Efficiency	1.35 by HABA

GENE INFORMATION

Gene Name	HSPA5 heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa) [Homo sapiens (human)]
Official Symbol	HSPA5
Synonyms	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 lumenal Ca(2+)-binding protein grp78; BIP; MIF2; GRP78; FLJ26106
Gene ID	3309
mRNA Refseq	NM_005347
Protein Refseq	NP_005338
MIM	138120
UniProt ID	P11021

SDS-PAGE and WB



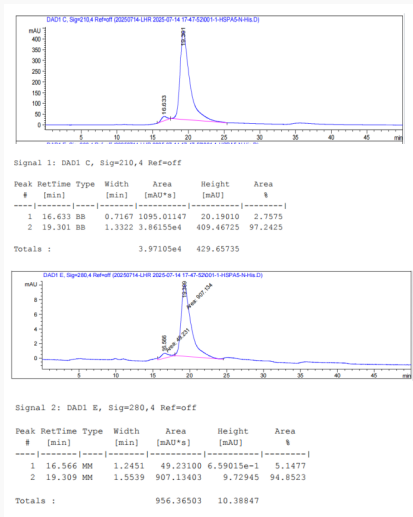
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1.HSPA5-N-His 1ug 2.BSA 1ug Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified HSPA5-N-His

SEC-HPLC analysis profiles of purified HSPA5-N-His



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