

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

Cat. No. HSPA5-01HB **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Biotinylated recombinant Full Length Human HSPA5 Protein (1-654 aa) with His&Avi tag was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

1-654 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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therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers.

Labeling Efficiency 1.16 by HABA

Molecular Mass 74 kDa

AASequence

EEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIANDQGNRITPSYVAFTPEGERLI
 GDAAKNQLTSNPENTVFDKRLIGRTWNPDSVQQDIKFLPFKVVVEKTKPKYIQVDIG
 GGQTKTFAPEEISAMVLTKMKETAAYLGKKVTHAVVTPAYFNDAQRQATKDAGTI
 AGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNG
 DTHLGGEDFDQRVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHQ
 ARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLSDDLKSDIDEIVLVG
 GSTRIKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVC
 PLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLL
 GTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIE
 RMVNDAEKFAEEDKCLKERIDTRNELESYAYSLKNQIGDKEKLGKLSSEDKETMEK
 AVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDELH
 HHHHHHHHGLNDIFEAQKIEWHE

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.

Storage Buffer Sterile PBS, pH7.4

Concentration 1.74 mg/mL by BCA

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GENE INFORMATION

Gene Name HSPA5 heat shock protein family A (Hsp70) member 5 [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

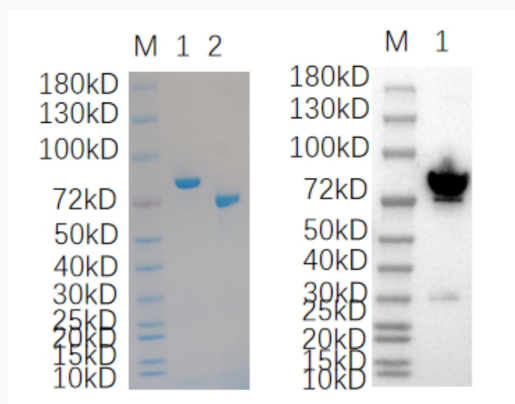
mRNA Refseq NM_005347

Protein Refseq NP_005338

MIM 138120

UniProt ID P11021

SDS-PAGE and WB



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

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