

Recombinant Full Length Rhesus Monkey HSPA5 Protein, C-His tagged

Cat. No. HSPA5-2165RF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Rhesus Monkey HSPA5 Protein with His tag was expressed in HEK293.
Species	Rhesus macaque
Source	HEK293
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 therapeutic target for the treatment of coronavirus diseases and chemoresistant cancers.
Molecular Mass	The protein has a calculated MW of 72 kDa.

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AA Sequence

EEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIANDQGNRITPSYVAFTPEGERLI
 GDAAKNQLTSNPENTVFDAKRLIGRTWNPDSVQQDIKFLPFKVVEKKTTPYIQVDIG
 GGQTKTFAPEEISAMVLTKMKETAAYLGKKVTHAVVTPAYFNDAQRQATKDAGTI
 AGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNG
 DTHLGGEDFDQRMVMEHFILYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHQ
 ARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLESDLLKSDIDEIVLVG
 GSTRIPIQQLVKEFFNGKEPSRGINPDEAVAYGAAGVQAGVLSGDQDTGDLVLLDVC
 PLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLL
 GTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIE
 RMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSSEDKETMEK
 AVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDELH
 HHHHHHH

Endotoxin

< 1 EU/μg by LAL

Purity

> 90% 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

0.57 mg/mL by BCA

Storage Buffer

PBS, pH 7.4

Full Length

Full L.

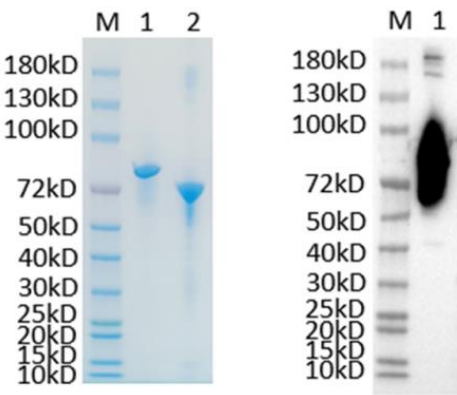
GENE INFORMATION
Gene Name

HSPA5 heat shock protein family A (Hsp70) member 5 [*Macaca mulatta* (Rhesus monkey)]

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Official Symbol	HSPA5
Synonyms	HSPA5; heat shock protein family A (Hsp70) member 5; endoplasmic reticulum chaperone BiP; 78 kDa glucose-regulated protein; heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa); EC 3.6.4.10
Gene ID	703193
mRNA Refseq	NM_001266596
Protein Refseq	NP_001253525
UniProt ID	F7C3R1
Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profile of purified HSPA5.	 1. HSPA5 2. BSA