

# 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  
 GDAAKNQLTSNPENTVFDKRLIGRTWNPDSVQQDIKFLPFKVVEKTKPYIQVDIG  
 GGQTKTFAPEEISAMVLTKMKETAAYLGKKVTHAVVTPAYFNDAQRQATKDAGTI  
 AGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNG  
 DTHLGGEDFDQRVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHQ  
 ARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLESDLKKSIDEIVLVG  
 GSTRIPIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVC  
 PLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLL  
 GTFDLTGIPPAPRGVPGQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIE  
 RMVNDAEKFAEEDKCLKERIDTRNELESYAYSLKNQIGDKEKLGKLSSEDKETMEK  
 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) ]

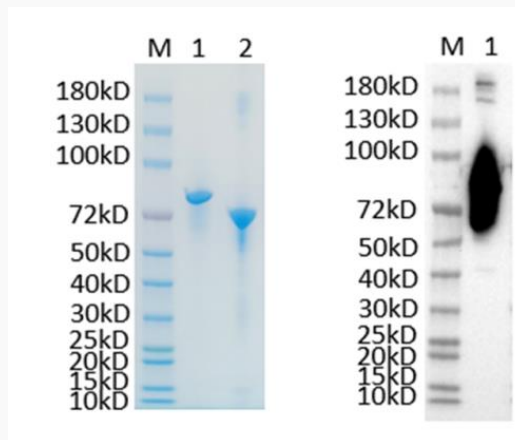
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<b>Official Symbol</b>	<b>HSPA5</b>
<b>Synonyms</b>	HSPA5; heat shock protein family A (Hsp70) member 5; endoplasmic reticulum chaperone BiP; 78 kDa glucose-regulated protein; heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa); EC 3.6.4.10
<b>Gene ID</b>	<b>703193</b>
<b>mRNA Refseq</b>	<b>NM_001266596</b>
<b>Protein Refseq</b>	<b>NP_001253525</b>
<b>UniProt ID</b>	<b>F7C3R1</b>

**Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profile of purified HSPA5.**



1. HSPA5
2. BSA

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