

Recombinant Human HSPA5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HSPA5-3349H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

HSPA5 MS Standard C13 and N15-labeled recombinant protein (NP_005338) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. It is localized in the lumen of the endoplasmic reticulum (ER), and is involved in the folding and assembly of proteins in the ER. As this protein interacts with many ER proteins, it may play a key role in monitoring protein transport through the cell.

Molecular Mass

72.3 kDa

AA Sequence

MKLSLVAAMLLLLSAARAEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIANDQ
 GNRITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDARLIGRTWNDPSVQQDIKFL
 PFKVVEKKTTPYIQVDIGGGQTKTFAPEEISAMVLTKMKETAAYLGKKVTHAVVTP
 AYNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFD
 VSLLTIDNGVFEVVATNGDTHLGGEDFDQVRMEHFIKLYKKKTGKDVRKDNRAVQKL
 RREVEKAKRALSSQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKV
 LEDSDLKKSDIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAG
 VLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTV
 TIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGN

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KNKITITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDK
 EKLGGKLSSEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSA
 GPPPTGEEDTAEKDELTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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 luminal Ca(2+)-binding protein grp78; BIP; MIF2; GRP78; FLJ26106;

Gene ID [3309](#)

mRNA Refseq [NM_005347](#)

Protein Refseq [NP_005338](#)

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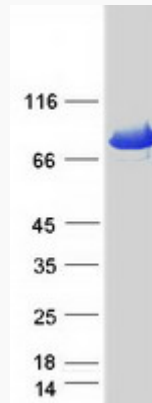
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MIM 138120

UniProt ID P11021

SDS-PAGE



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