

Recombinant Human HSPA6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HSPA6-5652H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HSPA6 MS Standard C13 and N15-labeled recombinant protein (NP_002146) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release.
Molecular Mass	71 kDa
AA Sequence	MQAPRELAVGIDLGTTYSCVGVFQQGRVEILANDQGNRTTPSYVAFTDTERLVGDA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

AKSQAALNPHTVFDARLIGRKFADTTVQSDMKHWPFRVVSEGGKPKVRVCYRG
EDKTFYPEEISSMVLSKMKETAAYLGQPVKHAVITVPAYFNDSQRQATKDAGAIAG
LNVLRINEPTAAAIAYGLDRRGAGERNVLIFDLGGGTFDVSVLSIDAGVFEVKATAGD
THLGGEDFDNRLVNHFMEEFRRKHGKDLSGNKRRLRRTACERAKRTLSSSTQAT
LEIDSLFEGVDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDVVLVGGG
TRIPKVQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAVLMGDKCEKVQDLLLLDVA
PLSLGLETAGGVMTTLIQRNATIPTKQTQTFTTYSNQPVGVIQVYEGERAMTKDNN
LLGRFELSGIPPAPRGVPQIEVTFDIDANGILSVTATDRSTGKANKITITNDKGRLSKE
EVERMVHEAEQYKAEDAEQRDRVAAKNSLEAHVFHVKGSLQEESLRDKIPEEDRRK
MQDKCREVLAWLEHNQLAEKEEYEHQKRELEQICRPISRLYGGPGVPGGSSCGT
QARQGDGPSTGPIIEVDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 HSPA6 heat shock protein family A (Hsp70) member 6 [Homo sapiens (human)]

Official Symbol HSPA6

Synonyms HSPA6; heat shock 70kDa protein 6 (HSP70B); heat shock 70kD protein 6 (HSP70B); heat shock 70 kDa protein 6; heat shock 70 kDa protein B;

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Gene ID	3310
mRNA Refseq	NM_002155
Protein Refseq	NP_002146
MIM	140555
UniProt ID	P17066
SDS-PAGE	