

Product datasheet for PH307795

HSPA6 (NM_002155) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HSPA6 MS Standard C13 and N15-labeled recombinant protein (NP_002146)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207795
Predicted MW:	71 kDa
Protein Sequence:	>RC207795 protein sequence Red=Cloning site Green=Tags(s)

MQAPRELAVGIDLGTTYSCVGVFQQGRVEILANDQGNRTTPSYVAFTDTERLVGDAAKSQAALNPHTVF
DAKRLIGRKFADTTVQSDMKHWPFRVSEGGKPKVRVCYRGEDKTFYPEEISSMVL SKMKETA EAYLGQP
VKHAVITVPAYFNDSQRQATKDAGAIAGLNVLRIINEPTAAAIA YGLDRRGAGERNVLIFDLGGGTFDVS
VLSIDAGVFEVKATAGDTHLGGEDFDNRLVNHFMEEFRRKHGKDL SGNKRALRRLRTACERAKRTLSSST
QATLEIDSLFEGVDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDVVLVGGSTRIPKVVQK
LLQDFFNGKELNKSINPDEAVAYGAAVQAAVLMGDKCEKVQDLLLLDVAPLSL GLETAGGVMTTLIQRNA
TIPTKQTQTFTTYSDNQGVFIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILSV
TATDRSTGKANKITITNDKGRLSKEEVERMVHEAEQYKAEDAQRDRVAAKNSLEAHVFHVKGSLQEESL
RDKIPEEDRRKMQDKCREVLAWLEHNQLAEKEEYEHQKRELEQICRPIFSRLYGGPGVPGSSCGTQARQ
GDPSTGPIIEEVD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002146
RefSeq Size:	2664



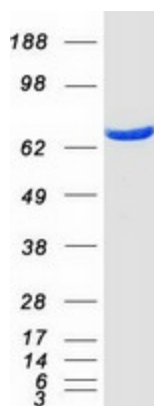
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RefSeq ORF:	1929
Synonyms:	HSP70B'
Locus ID:	3310
UniProt ID:	P17066 , A0A384NKX5 , B3KSM6
Cytogenetics:	1q23.3

Summary: 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 (PubMed:26865365).[UniProtKB/Swiss-Prot Function]

Protein Pathways: Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Spliceosome

Product images:



Coomassie blue staining of purified HSPA6 protein (Cat# [TP307795]). The protein was produced from HEK293T cells transfected with HSPA6 cDNA clone (Cat# [RC207795]) using MegaTran 2.0 (Cat# [TT210002]).