

Product datasheet for PH300523

HSPA2 (NM_021979) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards HSPA2 MS Standard C13 and N15-labeled recombinant protein (NP_068814) **Description:** Species: Human **HEK293 Expression Host: Expression cDNA Clone** RC200523 or AA Sequence: Predicted MW: 70 kDa >RC200523 protein sequence **Protein Sequence:** Red=Cloning site Green=Tags(s) MSARGPAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTIFD AKRLIGRKFEDATVQSDMKHWPFRVVSEGGKPKVQVEYKGETKTFFPEEISSMVLTKMKEIAEAYLGGKV HSAVITVPAYFNDSQRQATKDAGTITGLNVLRIINEPTAAAIAYGLDKKGCAGGEKNVLIFDLGGGTFDV SILTIEDGIFEVKSTAGDTHLGGEDFDNRMVSHLAEEFKRKHKKDIGPNKRAVRRLRTACERAKRTLSSS TQASIEIDSLYEGVDFYTSITRARFEELNADLFRGTLEPVEKALRDAKLDKGQIQEIVLVGGSTRIPKIQ KLLQDFFNGKELNKSINPDEAVAYGAAVQAAILIGDKSENVQDLLLLDVTPLSLGIETAGGVMTPLIKRN TTIPTKQTQTFTTYSDNQSSVLVQVYEGERAMTKDNNLLGKFDLTGIPPAPRGVPQIEVTFDIDANGILN VTAADKSTGKENKITITNDKGRLSKDDIDRMVQEAERYKSEDEANRDRVAAKNALESYTYNIKQTVEDEK LRGKISEQDKNKILDKCQEVINWLDRNQMAEKDEYEHKQKELERVCNPIISKLYQGGPGGGSGGGGSGAS GGPTIEEVD TRTRPLEQKLISEEDLAANDILDYKDDDDKV C-Myc/DDK Tag: **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 068814 **RefSeq Size:** 2802



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	2 (NM_021979) Human Mass Spec Standard – PH300523	
RefSeq ORF:	1917	
Synonyms:	HSP70-2; HSP70-3	
Locus ID:	3306	
UniProt ID:	<u>P54652, A0A024R6B5</u>	
Cytogenetics:	14q23.3	
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). Plays a role in spermatogenesis. In association with SHCBP1L may participate in the maintenance of spindle integrity during meiosis in male germ cells (By similarity).[UniProtKB/Swiss-Prot Function]	
Protein Families:	Stem cell - Pluripotency	
Protein Pathways	: Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Spliceosome	
Product image	es:	

188	-
98	-
62	
49	-
38	-
28	_
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63	=

Coomassie blue staining of purified HSPA2 protein (Cat# [TP300523]). The protein was produced from HEK293T cells transfected with HSPA2 cDNA clone (Cat# [RC200523]) using MegaTran 2.0 (Cat# [TT210002]).

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