

Product datasheet for PH300270

HSP70-1A (HSPA1A) (NM_005345) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | HSPA1A MS Standard C13 and N15-labeled recombinant protein (NP_005336) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC200270 |
| Predicted MW: | 69.9 kDa |
| Protein Sequence: | >RC200270 representing NM_005345 Red=Cloning site Green=Tags(s) |

MAKAAAIGIDLGTYSVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDA
KRLIGRKFQDPVVQSDMKHWPQVINDGDKPKVQVSYKGETKAFYPPEISSMVLTKMKEIAEAYLGYPT
NAVITVPAYFNDSQRQATKDAGVIAGLNLVRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSIL
TIDDGIFEVKATAGDTHLGGEDFDNRLVNHVVEEFKRKHKKDISQNKRAVRRRLTACERAKRTLSSTQA
SLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLL
QDFFNDRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLDVAPLSLPLETAGGVMTALIKRNSTI
PTKQTQIFFTYSNQPGVLIQVYGERAMTKDNNLLGRFELSGIPPAPRGVQIEVTFDIDANGILNVTA
TDKSTGKANKITITNDKGRLSKEEIERMVQEAKEYKADEVQRERVSAKNALESYAFNMKSAVEDEGLKG
KI SEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLYQAGGPGGGFGAQGPKGG
SGSGPTIEEVD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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| 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_005336 |
| RefSeq Size: | 2383 |



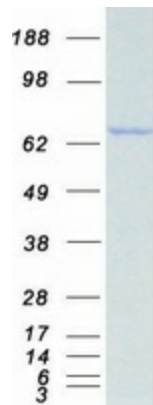
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| | |
|---------------|--|
| RefSeq ORF: | 1923 |
| Synonyms: | HEL-S-103; HSP70-1; HSP70-1A; HSP70-2; HSP70.1; HSP70.2; HSP70I; HSP72; HSPA1 |
| Locus ID: | 3303 |
| UniProt ID: | P08107 , P0DMV8 , P0DMV9 , A8K5I0 , B3KTT5 |
| Cytogenetics: | 6p21.33 |

Summary: This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq, Jul 2008]

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

Product images:



Coomassie blue staining of purified HSPA1A protein (Cat# [TP300270]). The protein was produced from HEK293T cells transfected with HSPA1A cDNA clone (Cat# [RC200270]) using MegaTran 2.0 (Cat# [TT210002]).