

## Product datasheet for PH300693

### HERPUD1 (NM\_001010989) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HERPUD1 MS Standard C13 and N15-labeled recombinant protein (NP_001010989)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200693
Predicted MW:	43.4 kDa
Protein Sequence:	>RC200693 representing NM_001010989 Red=Cloning site Green=Tags(s)  MESETEPEPVTLTVKSPNQHRDLELSGDRGWSVGHKKAHL SRVYPERPRPEDQRLIYSGKLLLDHQCLR DLLPKQEKRHVLHLVCNVKSPSKMPEINAKVAESTEEPAGSNRGQYPEDSSDGLRQREVLRNLSSPGWE NISRPEAAQQAQGLGPGFSGYTPYGWLQLSWFQQIYARQYMQYLAATAASGAFVPPPSAQEIPVVSAP APAPIHNQFPAENQPANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDEINRDWLDWTYSAAATFSVFLSI LYFYSSL SRFLMVMGATVVMYLHHVGFPRPRPVQNFPPNDGPPPDVVNQDPNNNLQEGTDPETEDPNHL PPDRDVL DGEQTSFSFMSTAWLVFKTFFASLLPEGPPAIAN  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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<u>NP_001010989</u>
RefSeq Size:	2195
RefSeq ORF:	1173
Synonyms:	HERP; Mif1; SUP
Locus ID:	9709



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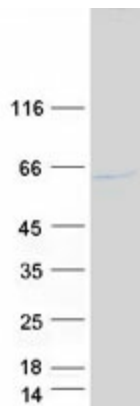
UniProt ID: [Q15011](#)

Cytogenetics: 16q13

**Summary:** The accumulation of unfolded proteins in the endoplasmic reticulum (ER) triggers the ER stress response. This response includes the inhibition of translation to prevent further accumulation of unfolded proteins, the increased expression of proteins involved in polypeptide folding, known as the unfolded protein response (UPR), and the destruction of misfolded proteins by the ER-associated protein degradation (ERAD) system. This gene may play a role in both UPR and ERAD. Its expression is induced by UPR and it has an ER stress response element in its promoter region while the encoded protein has an N-terminal ubiquitin-like domain which may interact with the ERAD system. This protein has been shown to interact with presenilin proteins and to increase the level of amyloid-beta protein following its overexpression. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. The full-length nature of all transcript variants has not been determined. [provided by RefSeq, Jan 2013]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified HERPUD1 protein (Cat# [TP300693]). The protein was produced from HEK293T cells transfected with HERPUD1 cDNA clone (Cat# [RC200693]) using MegaTran 2.0 (Cat# [TT210002]).