

## Product datasheet for **TP311835L**

### HERPUD1 (NM\_014685) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 (HERPUD1), transcript variant 1, 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC211835 representing NM_014685 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MESETEPEPVTLVKSPNQRRHRDLELSGDRGWSVGHKKAHLRSVYPERPRPEDQRLIYSGKLLLDHQCLR DLLPKQEKRHVHLVLCNVKSPSKMPEINAKVAESTEEPAGSNRGQYPEDSSSDGLRQREVLRLNLSSPGWE NISRPEAAQQAFQGLGPGFSGYTPYGWLQLSWFQYIARQYMQYLAATAASGAFVPPPSAQEIPVVSAP APAPIHNQFPAENQPANQNAAPQVVVNPANQNLRMNAQGGPIVEEDDEINRDWLDWTYSAATFSVFLSI LYFYSSLSRFLMVMGATVVMYLHHVGVFPFRPRPVQNFNDGPPPDPVNDPNNNLQEGTDPETEDPNHL PPDRDVLVDGEQTSPSFMSTAWLVFKTFFASLLPEGPPAIAN
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	43.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_055500</a></u>



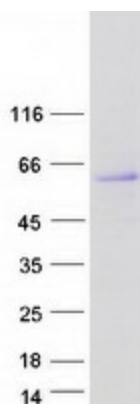
[View online »](#)

Locus ID: 9709  
UniProt ID: [Q15011](#), [Q53FP9](#)  
RefSeq Size: 2198  
Cytogenetics: 16q13  
RefSeq ORF: 1173  
Synonyms: HERP; Mif1; SUP

**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# [TP311835]). The protein was produced from HEK293T cells transfected with HERPUD1 cDNA clone (Cat# [RC211835]) using MegaTran 2.0 (Cat# [TT210002]).