

Recombinant Human HERPUD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HERPUD1-5439H Lot. No. (See product label)

SPECIFICATION

Product Overview	HERPUD1 MS Standard C13 and N15-labeled recombinant protein (NP_001010990) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	40.7 kDa

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AA Sequence	MESETEPEPVTLVKSPNQRHRDLELSGDRGWSVGHLKAHLSRVYPERPRPEDQR LIYSGKLLLDHQCLRDLLPKVAESTEEPAGSNRGQYPEDSSSDGLRQREVLRNLSSP GWENISRPEAAQQAQFQGLGPGFSGYTPYGWLQLSWFQQIYARQYYMQYLAATAAS GAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQPANQNAAPQVVVNPGANQNLRMNA QGGPIVEEDDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVMYLHHV GWFPFRPRPVQNFPNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPDPDRDVLGD EQTSPSFMSTAWLVFKTFFASLLPEGPPAIANTRTRPLEQKLISEEDLAANDILDYKD DDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HERPUD1 homocysteine inducible ER protein with ubiquitin like domain 1 [Homo sapiens (human)]
Official Symbol	HERPUD1
Synonyms	HERPUD1; homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1; homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein; HERP; KIAA0025; Mif1; SUP; MMS-inducible; methyl methanesulfonate (MMF)-inducible fragment protein 1;

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homocysteine-inducible endoplasmic reticulum stress-inducible ubiquitin-like domain member 1 protein;

Gene ID [9709](#)

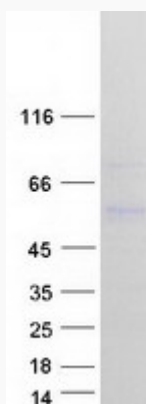
mRNA Refseq [NM_001010990](#)

Protein Refseq [NP_001010990](#)

MIM [608070](#)

UniProt ID [Q15011](#)

SDS-PAGE



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