

Recombinant Human HERPUD1 Protein, GST-tagged

Cat. No. HERPUD1-4695H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HERPUD1 full-length ORF (AAH32673, 1 a.a. - 391 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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, some encoding different isoforms. The full-length nature of all transcript variants has not been determined. [provided by RefSeq]
Molecular Mass	68.75 kDa
AA Sequence	MESETEPEPVTLLVKSPNQHRDLELSGDRGWSVGHLKAHLRSVYPERPRPEDQR

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LIYSGKLLLDHQCLRDLLPKQEKRHVLHLVCNVKSPSKMPEINAKVAESTEETPAGSN
 RGQYPEDSSSDGLRQREVLRLNLSSPGWENISRPEAAQQAQGLGPGFSGYTPYG
 WLQLSWFQQIYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAE
 NQPANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDDEINRDWLDWTYSAATFSVF
 LSILYFYSSLSRFLMVMGATVVMYLHHVGWFPFRPRPVQNFNDGPPPDVVNQDP
 NNNLQEGTDPETEDPNHLPPDRDVLGEQTSPSFMSTAWLVFKTFFASLLPEGPPA
 IAN

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

HERPUD1 homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 [Homo sapiens]

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; homocysteine-inducible endoplasmic reticulum stress-inducible ubiquitin-like domain

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member 1 protein;

Gene ID 9709

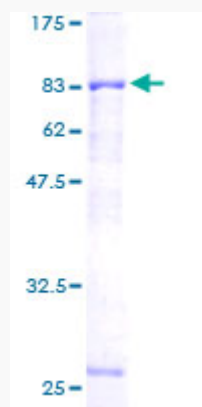
mRNA Refseq NM_001010989

Protein Refseq NP_001010989

MIM 608070

UniProt ID Q15011

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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