

## Recombinant Full Length Human HERPUD1 Protein, GST-tagged

**Cat. No.** HERPUD1-3513HF    **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**

In Vitro Cell Free System

**ProteinLength**

391 amino acids

**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]

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 68.75 kDa                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>    | MESETEPEPVTLVKSPNQRHRDLELSGDRGWSVGHLKAHLSRVYPERPRPEDQR<br>LIYSGKLLLDHQCLRDLLPKQEKRHVLHLVCNVKSPSKMPEINAKVAESTEEPAGSN<br>RGQYPEDSSSDGLRQREVLRLNLSSPGWENISRPEAAQQAQGLGPGFSGYTPYG<br>WLQLSWFQQIYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAE<br>NQPANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDDEINRDWLDWTYSAATFSVF<br>LSILFYSSLSRFLMVMGATVVMYLHHVGVWFPRPRPVQNFPNDGPPPDVNVQDP<br>NNNLQEGTDPETEDPNHLPPDRDVLGEQTSPSFMSTAWLVFKTFFASLLPEGPPA<br>IAN |
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>        | Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HERPUD1 homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1 [ Homo sapiens ]                                 |
| <b>Official Symbol</b> | HERPUD1                                                                                                                                                 |
| <b>Synonyms</b>        | HERPUD1; homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1; homocysteine-responsive endoplasmic reticulum- |

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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 member 1 protein;

|                |              |
|----------------|--------------|
| Gene ID        | 9709         |
| mRNA Refseq    | NM_001010989 |
| Protein Refseq | NP_001010989 |
| MIM            | 608070       |
| UniProt ID     | Q15011       |

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