

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]

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	68.75 kDa
AA Sequence	MESETEPEPVTLVKSPNQRHRDLELSGDRGWSVGHLKAHLSRVYPERPRPEDQR LIYSGKLLLDHQCLRDLLPKQEKRHVLHLVCNVKSPSKMPEINAKVAESTEEPAGSN RGQYPEDSSSDGLRQREVLRLNLSSPGWENISRPEAAQQAQGLGPGFSGYTPYG WLQLSWFQQIYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAE NQPANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDDEINRDWLDWTYSAATFSVF LSILYFYSSLSRFLMVMGATVVMYLHHVGVWFPRPRPVQNFPNDGPPPDPVNVQDP 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-

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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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