

Recombinant Human homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1, His-tagged

Cat. No. HERPUD1-628H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HERPUD1, 1-263a Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-263 a.a.
Description	Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein, also known as HERPUD1, is a 391 amino acid multi-pass membrane protein that localizes to the ER and contains one N-terminal ubiquitin-like domain. Widely expressed with highest expression in the brain, HERP is a component of the ERAD system and, via its ubiquitin-like domain, is thought to be involved in the destruction of misfolded proteins. Recombinant human HERPUD1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffer saline (pH 7.4) containing 10% glycerol
Molecular Mass	31.6 kDa (286aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMESETEP EPVTLLVKSP NQRHRDLELS GDRGWSVGHL KAHLRVYPE RRPEDQRLI YSGKLLLDHQ CLRDLLPKQE

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KRHVLHLVCN VKSPSKMPEI NAKVAESTEE PAGSNRGQYP EDSSSDGLRQ
 REVLRLNLSSP GWENISRPEA AQQAFQGLGP GFSGYTPYGW LQLSWFQQIY
 ARQYYMQYLA ATAASGAFVP PPSAQEIPVV SAPAPAPIHN QFPAENQPAN
 QNAAPQVVVN PGANQNLRMN AQGGPIVEED DEINRD

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

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 member 1 protein;

Gene ID [9709](#)

mRNA Refseq [NM_001010989](#)

Protein Refseq [NP_001010989](#)

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MIM	608070
UniProt ID	Q15011
Chromosome Location	16q13
Pathway	Activation of Genes by ATF4, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; HRD1/SEL1 ERAD complex, organism-specific biosystem; HRD1/SEL1 ERAD complex, conserved biosystem; PERK regulated gene expression, organism-specific biosystem;
Function	molecular_function;

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