Recombinant human HERPUD1 protein

Catalog Number: ATGP2851

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-263aa

UniProt No.
Q15011

NCBI Accession No.
NP_055500

Alternative Names
Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein, HERP, Mif1, SuP, Methyl methanesulfonate (MMF)-inducible fragment protein 1

PRODUCT SPECIFICATION

Molecular Weight
31.6 kDa (286aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

Amino acid Sequence

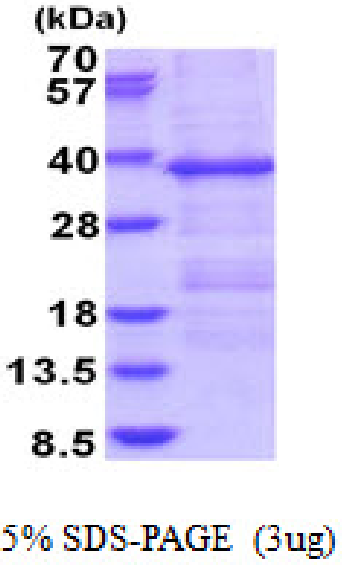
MGSSHHHHHH SSGLVPRGSH MGSMESETEP EPVTLLVKSP NQRHRDLELS GDRGWSVGHL KAHLSRVYPE RPRPEDQRLI YSGKLLLDHQ CLRDLLPKQE KRHVLHLVCN VKSPSKMPEI NAKVAESTEE PAGSNRGQYP EDSSSDGLRQ REVLRNLSSP GWENISRPEA AQQAFQGLGP GFSGYTPYGW LQLSWFQQIY ARQYYMQYLA ATAASGAFVP PPSAQEIPVV SAPAPAPIHN QFPAENQPAN QNAAPQVVVN PGANQNLRMN AQGGPIVEED DEINRD

General References

Schulze A., et al. (2005) J Mol Biol. 354: 1021-1027.
Liang G., et al. (2006) Mol Cell Biol. 26: 7999-8010

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.