

HERPUD1, 1-263a Human, His tag, E.coli

Cat.NO.: TP02435

3th Edition

Synonyms: Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein, HERP, Mif1, SUP

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMESETEPEPVTLVKSPNQRHRDLELSGDRGWSVGHKKAHLRSVYPERPR
PEDQRLIYSGKLLLDHQCLRDLLPKQEKRHVLHLVCNVKSPSKMPEINAKVAESTEEPAGSNRGQYPEDSSSDGLR
QREVLRLNLSSPGWENISRPEAAQAFQGLGPGFSGYTPYGWLQLSWFQQIYARQYYMQYLAATAASGAFVPPPS
AQEIPVVSAPAPAPIHNQFPAENQPANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDDEINRD

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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