Catalog # Aliquot Size

U06-54N-200 200 μg U06-54N-500 500 μg

Ubiquitin Protein

Recombinant human protein expressed in E. coli cells

Catalog # U06-54N

Lot # V202-10

Product Description

Recombinant human tag free ubiquitin (1-76) protein was expressed in E. coli cells. The gene accession number is <u>NM 018955</u>.

Gene Aliases

UBB, MGC8385, FLJ25987

Formulation

Recombinant protein stored in 20 mM Tris-HCl pH 7.0, 150 mM NaCl, 0.1 mM EDTA, 1 mM DTT and 25% glycerol.

Storage and Stability

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

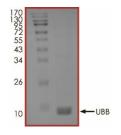
Scientific Background

Ubiquitin is a highly-conserved protein that is widely expressed in eukaryotes (1). Ubiquitin is required for the rapid proteasomal degradation of intracellular proteins in an ATP-dependent manner. UBB+1 is a frameshift mutant form of ubiquitin, which not only inhibits the function of the proteasome machinery, but also accumulates in the cells associated with tauopathies, including Alzheimer's disease and polyglutamine diseases because of the cell's inability to clear cytotoxic misfolded amyloid-beta and phosphorylated-tau (2). UBB+1 also serves as an endogenous marker for proteasomal dysfunction in liver disease and muscle disease, where the protein may also have a role in pathogenesis.

References

- Baker, R T. et al: The human ubiquitin gene family: structure of a gene and pseudogenes from the Ub B subfamily. Nucleic Acids Res.15: 443-463, 1987.
- Fratta, P. et al: Mutant ubiquitin UBB+1 is accumulated in sporadic inclusion-body myositis muscle fibers. Neurology. 2004 Sep 28;63(6):1114-7.

Purity



The purity was determined to be >95% by densitometry.

Approx. MW 10kDa.

Ubiquitin Protein

Recombinant human protein expressed in E. coli cells

Catalog #
Lot #
Purity
Concentration
Stability

Storage & Shipping

U06-54N V202-10 >95% 0.5 μg/μl

1yr at -70°C from date of shipment Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.

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