



Synonym

HEL-S-50

Source

Human Ubiquitin Protein, His Tag(UBN-H5144) is expressed from E. coli cells.

It contains AA Gln 2 - Gly 76 (Accession # [P0CG47-1](#)).

Predicted N-terminus: Met

Molecular Characterization

Poly-his Ubiquitin(Gln 2 - Gly 76)
P0CG47-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 10.5 kDa. The protein migrates as 10-11 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in the maintenance of chromatin structure, the regulation of gene expression, and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein.

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