Human Ubiquitin Protein (MALS verified)

Catalog # UBN-H5143

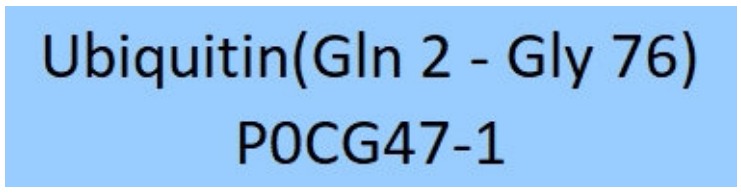
Synonym

HEL-S-50

Source

Human Ubiquitin Protein(UBN-H5143) is expressed from E. coli cells. It contains AA Gln 2 - Gly 76 (Accession # P0CG47-1).
Predicted N-terminus: Met

Molecular Characterization



This protein carries no "tag". The protein has a calculated MW of 9.6 kDa. The protein migrates as 8 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.

>90% as determined by SEC-MALS.

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

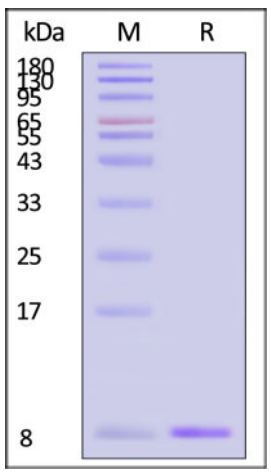
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

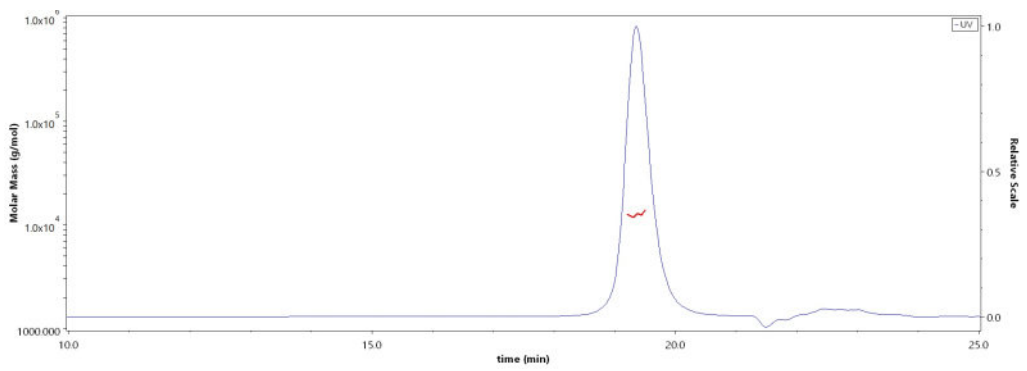
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Ubiquitin Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human Ubiquitin Protein (Cat. No. UBN-H5143) is more than 90% and the molecular weight of this protein is around 10-16 kDa verified by SEC-MALS.
Report

Background

Ubiquitin has a major role in targeting cellular proteins for degradation by the 26S proteosome. 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.

Clinical and Translational Updates