

Product Name: Ubiquitin, N-Cys

Alternate Names: MGCGS-Ubiquitin

Product Code: TUB-118

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Ubiquitin, N-Cys enables site-specific conjugation of fluorophores and other thiol-reactive probes for controlled, homogeneous labeling. It is ideally suited for biochemical assays, ubiquitylation and deubiquitylation studies, FRET applications, and other *in vitro* ubiquitin pathway analyses while maintaining native ubiquitin functionality.

Physical Characteristics

Species: Human

Predicted MW (kDa): 9.0 kDa

Source: *E. coli* BL21

Purity: 95 %

Tag: Untagged

Formulation: 20 mM HEPES, pH 7.6, 100 mM NaCl

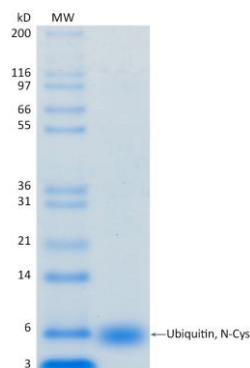
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: Ubiquitin, N-Cys



2 µg Ubiquitin, N-Cys run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in JF646 and AF647 fluorophore conjugation reactions.

Background

Description

Ubiquitin with 5 amino acids (MGCGS) appended to the N-terminus of wild-type ubiquitin sequence to introduce conjugation site for fluorophore labeling.

Protein Sequence

MGCGSMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSD
YNIQKESTLHLVLRGG