

Fluorescein-Ubiquitin (6-FAM-Ub)

Cat. No. SSB-TR0016
Lot. No. 163060016



South Bay Bio

Fluorescein -Ubiquitin

Ubiquitin is a highly conserved protein that plays a major role in the ubiquitylation pathway, which is conserved from yeast to mammals. Ubiquitylation, the conjugation of ubiquitin to other proteins through a covalent bond between its C-terminal glycine and the 3-amino group of lysine residues or the 3-amino group of an N-terminal methionine) onto proteins is essential for many cellular process primarily linked to protein degradation. This process involves three steps with specific groups of enzymes in an ATP depended manner, which are activation with ubiquitin-activating enzymes (E1s), conjugation with ubiquitin-conjugating enzymes (E2s), and ligation with ubiquitin ligases (E3s).

Highly purified recombinant protein, which has been labeled with a single fluorescein (6-FAM) moiety at a specific site that keeps all lysines within the protein available and has a fully functional C-terminus that allows for further conjugation into ubiquitin chains. Does not affect or impair the E1 - E2 and E3 conjugation cascade. 6-FAM Ubiquitin has an excitation maximum Ex 494nm and an emission maximum Em 520nm.

Product Information

Quantity: 50µg **Molecular Weight:** 9.1 kDa

Concentration: 65 µM, 0.6 mg/mL

Purity: >95% by LCMS

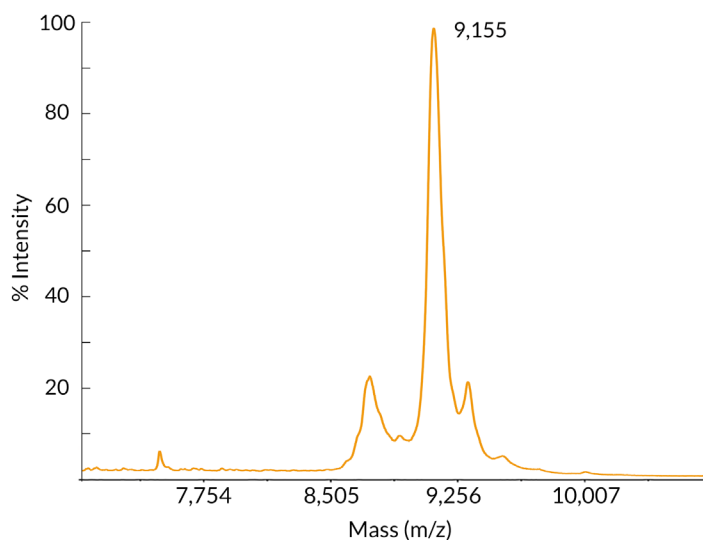
Excitation/Emission = 494nm /520nm

Storage Buffer: 50mM Hepes pH 7.5, 50mM NaCl

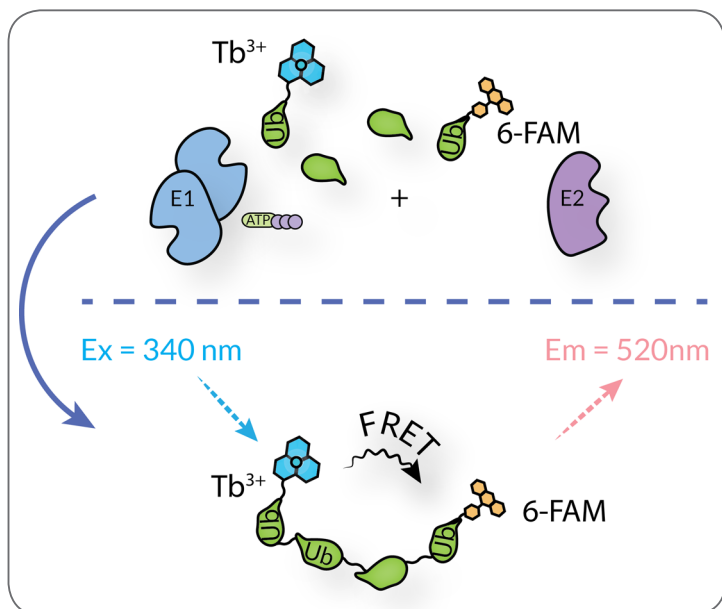
Storage: -80C, Avoid multiple freeze / thaw

Quality Control and Performance Data

Mass Spectrometry Data



LCMS. Analysis of 6-FAM-Ubiquitin using LCMS intact mass determination indicates purity greater than 95%, and a molecular weight of 9,155 daltons.



For Research Use Only, Not For Use In Humans.

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References

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 - 2) Komander, David and Michael Rape. "The Ubiquitin Code". Annual Review of Biochemistry 81.1 (2012): 203-229. Web. 9 Mar. 2017.
 - 3) Visser, A. J. W. G. et al. "Time-Resolved FRET Fluorescence Spectroscopy Of Visible Fluorescent Protein Pairs". European Biophysics Journal 39.2 (2009): 241-253. Web. 13 Mar. 2017.
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