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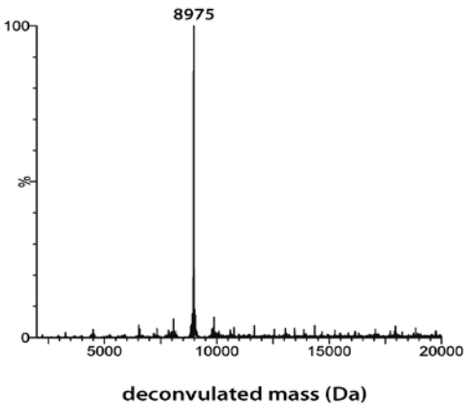
N-terminal TAMRA-Ub

Cat. # E1160, E1161

Also Known as: TAMRA-Ub
NCBI Reference: N/A
MW: 8977 Da
Species: Human
Source: Chemical synthesis
Tag: No
Stock Buffer: 20 mM Tris, pH 7.6 at 4 °C, 150 mM NaCl, and 10% glycerol.
Concentration: See tube label
Quality Assurance: ~95% by FPLC

Image LC-MS analysis (left) and SDS-PAGE analysis (0.5 ug, right) of N-terminal TAMRA-Ub. TAMRA fluorescence was visuzlized with excitation/emission wavelengths at 550 nm/590 nm.



Description: N-terminal TAMRA-Ub (also called TAMRA-Ub) is a fluorescent Ub, in which TAMRA (5-tetramethylrhodamine) is covalently conjugated on the N-terminus of Ub. All seven lysine residues in TAMRA-Ub are available for ubiquitination. This product can be used for determination of protein ubiquitination or E1/E2/E3 enzyme activity using sensitive in-gel TAMRA fluorescence. TAMRA fluorescence is detected using excitation/emission wavelengths at 550 nm/590 nm, respectively.

Storage: Store at -80°C; avoid multiple freeze-thaw cycles

Note: Use 20-50 µM TAMRA-Ub in ubiquitination reactions. Users should test for optimal TAMRA-Ub concentration.

Literature:
(1) El Oualid et al. Angew. Chem. Int. Ed. 2010, 49, 10149.
(2) de Jong et al. ChemBioChem 2012, 13, 2251.
(3) Smit et al. J Biol. Chem 2013, 288, 31728.