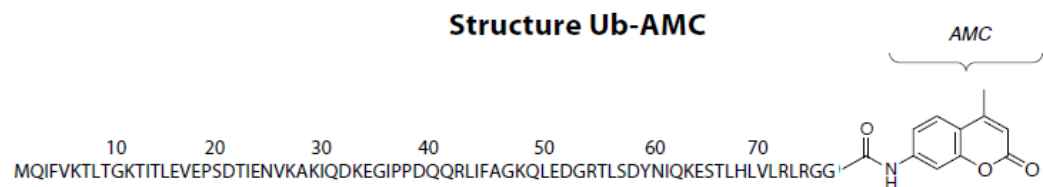


Ub-AMC

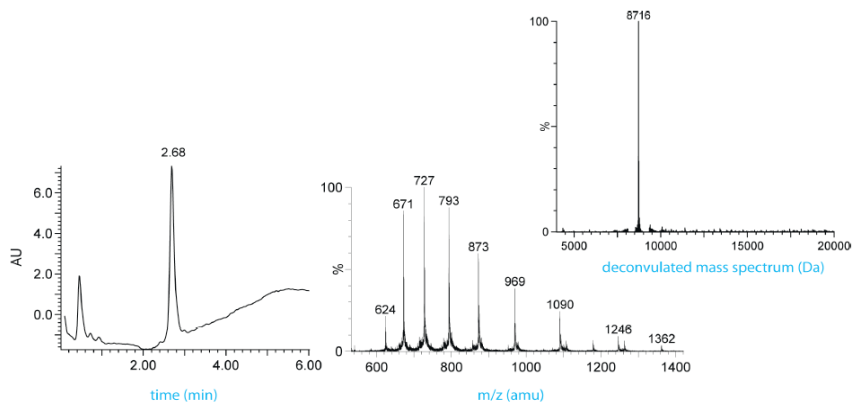
Cat. # M3010

Also Known as: Ubiquitin-AMC
Species: Human
MW: 8716 Da by MS (calc Mw 8722 Da)
Source: Synthetic
Stock Buffer: 20 mM Tris, 150 mM NaCl, 10% Glycerol
Concentration: See tube label
Quality Assurance: ≥95% by RP-HPLC

Structure:

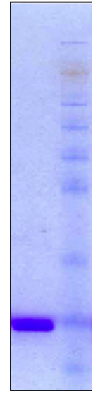


Images:



LC-MS analysis. Mobile phase A = 1% CH₃CN, 0.1% formic acid in water (milliQ) and B = 1% water (milliQ) and 0.1% formic acid in CH₃CN. Phenomenex Kinetex C18, (2.1×50 mm, 2.6 μM); flow rate=0.8 mL/min, runtime = 6 min, column T = 40°C. Gradient: 5% to 95% over 3.5 min.





Coomassie Blue staining of 5 ug Ub-AMC in SDS-PAGE.

- Description:** Ubiquitin 7-amido-4-methylcoumarin (Ub-AMC) is a sensitive fluorescence-based substrate of deubiquitinating enzymes. It is useful for monitoring deubiquitinating enzymes' activity or screening inhibitors of deubiquitinating enzymes. The concentration of Ub-AMC used in deubiquitinating reactions is usually 0.1-1 μ M. The released AMC fluorescence can be monitored using a fluorometer or plate reader with excitation and emission wavelengths at 360 nm and 460 nm, respectively.
- Storage:** Store at -80°C; avoid multiple freeze-thaw cycles
- Note:** Avoid mixing with compound or buffer containing free amino group.
- Literature:** Wilkinson KD, *et al.* (2005) *Methods Enzymol.* 399, 37-51

