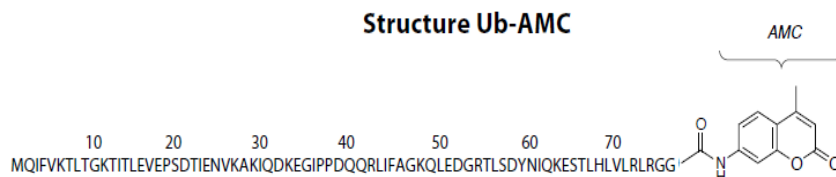


# Ub-AMC

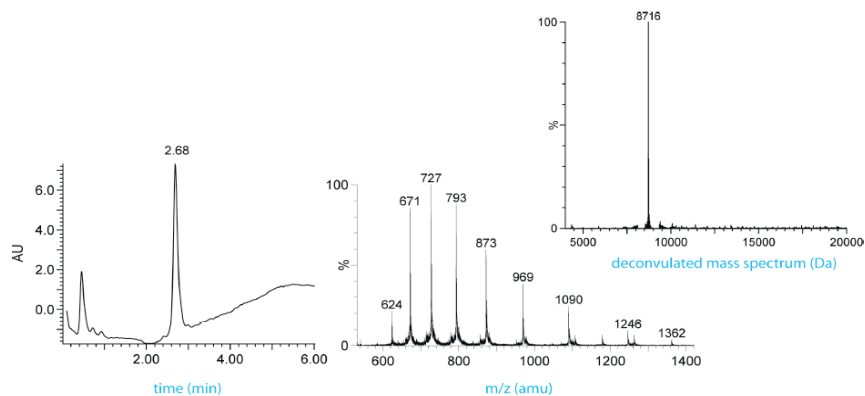
Cat# M3010, M3011, M3012

- Also Known as:** Ubiquitin-AMC  
**Species:** Human  
**MW:** 8716 Da by MS (calculated MW 8722 Da)  
**Source:** Synthetic  
**Stock Buffer:** 20 mM Tris, pH7.6 at 4 °C, 150 mM NaCl, 10% Glycerol  
**Concentration:** See tube label  
**Quality Assurance:** ≥95% by RP-HPLC  
**Description:** Ubiquitin 7-amido-4-methylcoumarin (Ub-AMC) is a sensitive fluorescence-based substrate of deubiquitinating enzymes (DUBs). It is useful for monitoring DUB activity or screening DUB inhibitors. The concentration of Ub-AMC used in deubiquitinating reactions is usually 0.1-1 μM. 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.

**Structure:**

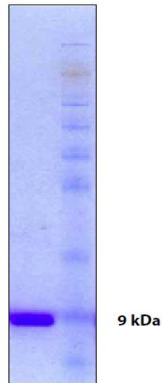


**Images:**



**LC-MS analysis.** Mobile phase A = 1% CH<sub>3</sub>CN, 0.1% formic acid in water (milliQ) and B = 1% water (milliQ) and 0.1% formic acid in CH<sub>3</sub>CN. 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.

**Storage:** Store at  $-80^{\circ}\text{C}$ ; avoid multiple freeze-thaw cycles.

**Note:** TCEP up to 10 mM is a preferred reducing agent in compound screening assays.

**Literature:** Wilkinson KD, *et al.* (2005) *Methods Enzymol.* 399, 37-51