

# UbiQ

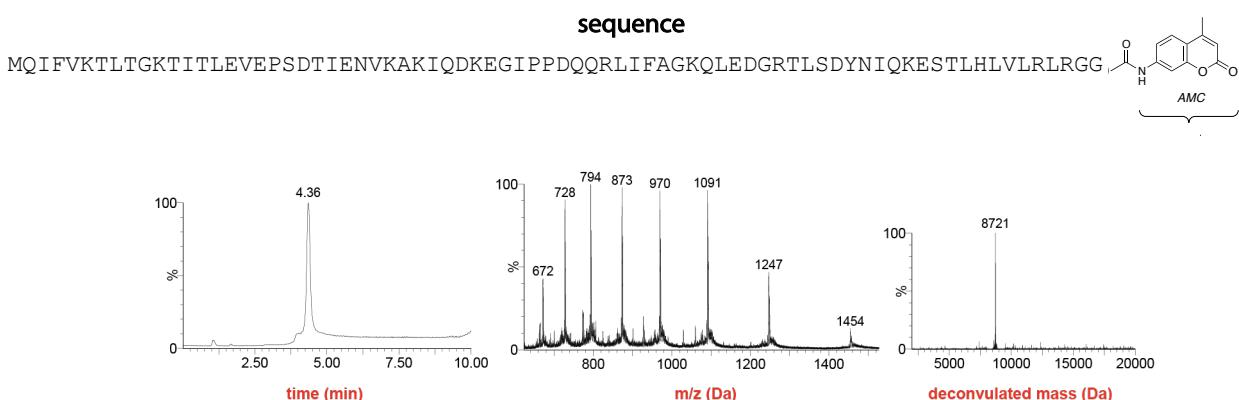
targeting the ubiquitin system

## Ub-AMC (human sequence, synthetic)

UbiQ code : UbiQ-001  
Batch # : B01062020-001  
Amount : 100 ug, lyophilized powder  
Purity : ≥95%  
Mol. Weight : 8.72 kDa  
Storage : upon arrival, powder at -20°C and solution at -80°C. Please store dark and avoid multiple freeze/thaw cycles.

## Productsheet

**Background.** UbiQ-001 (UbiQ-AMC) is a quenched fluorogenic substrate for deubiquitinating enzymes. It is based on ubiquitin that is functionalised with a C-terminal 7-amido-4-methylcoumarin (AMC). Cleavage of the amide bond between the C-terminal Gly and AMC releases the fluorescent AMC dye (exc 380 nm, emi 460 nm).



**Figure 1.** 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. XBridge BEH300 C18 5μm 4.6x100mm; flow rate = 0.8 mL/min, runtime = 10 min, column T = 40°C. Gradient: 20-50% B over 6.5 min.

### important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g. 20 mg/mL)
- add this DMSO stock slowly to milliQ (please note the order of addition)
- buffer the aq. solution as desired

**Literature.** (1) Dang et al. *Biochemistry* **1998**, *37*, 1868. (2) Mason et al. *Biochemistry* **2004**, *43*, 6535. (3) El Oualid et al. *Angew Chem Int Ed* **2010**, *49*, 10149.