

# UbiQ

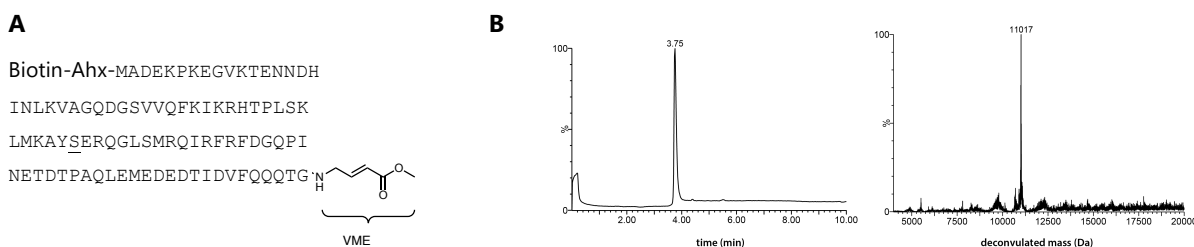
targeting the ubiquitin system

## Biotin-Ahx-SUMO2-VME (human sequence, C48S, synthetic)

UbiQ code : UbiQ-156  
Batch # : B01072016-001  
Amount : 50 ug, lyophilized powder  
Purity : ≥95% by RP-HPLC  
Mol. Weight : 11.02 kDa  
Storage : upon arrival, powder at -20°C; solution at -80°C. Please avoid multiple freeze/thaw cycles.

## Productsheet

**Background.** UbiQ-156 is an activity-based probe for SUMO proteases. It is based on the SUMO2 sequence (Cys48 mutated to Ser) in which the C-terminal is equipped with an electrophilic vinyl methyl ester (VME) group. The N-terminus is labeled with biotin and an aminohexanoic acid (Ahx) linker is used to create extra space between the biotin and SUMO protein for efficient access of biotin binding entities.



**Figure 1.** A: sequence. B: LC-MS analysis. Mobile phase A= 1% CH<sub>3</sub>CN, 0.1% formic acid in water (milliQ), 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: 30-60% B over 6.5 min.

### important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g., 20 – 40 mg/mL)
- add this DMSO stock to milliQ (e.g., to 1 mg/mL= 91 μM)
- next, buffer as desired
- for experimental details please see reference 1: <https://www.onlinelibrary.wiley.com/doi/full/10.1002/anie.201803483>

**Literature.** (1) Mulder et al. *Angew Chem Int Ed* **2018**, *57*, 8958. (2) Albrow et al. *Chem Biol* **2011**, *18*, 722. (3) Mendes et al. *Biochim Biophys Acta - Mol Cell Res* **2016**, *1863*, 139.

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