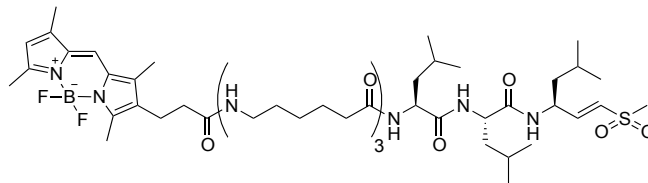


UbiQ

targeting the ubiquitin system



Me₄BodipyFL-Ahx₃Leu₃VS (synthetic)

UbiQ code : UbiQ-018

Batch # : B01092013-001

Amount : 50 ug, lyophilized orange powder

Purity : ≥95% by RP-HPLC

Mol. Weight : 1.06 kDa

Storage : upon arrival powder at -20°C, solution at -80°C. Protect from light and avoid multiple freeze/thaw cycles.

Productsheet

Background. Me₄BodipyFL-Ahx₃Leu₃VS ($\lambda_{\text{exc}} = 515 \text{ nm}$, $\lambda_{\text{em}} = 519 \text{ nm}$) is a fluorescent proteasome activity probe that allows for accurate profiling of proteasomal activity in cell lysates, intact cells, and murine and human patient-derived material, with high sensitivity using SDS-PAGE. The probe allows for direct scanning of the gel for fluorescent emission of the distinct proteasomal subunits and circumvents the use of western-blot analysis. Due to its suitable biochemical and biophysical properties the fluorescent probe can also be used for confocal laser scanning microscopy and flow cytometry-based experiments.^{1,2}

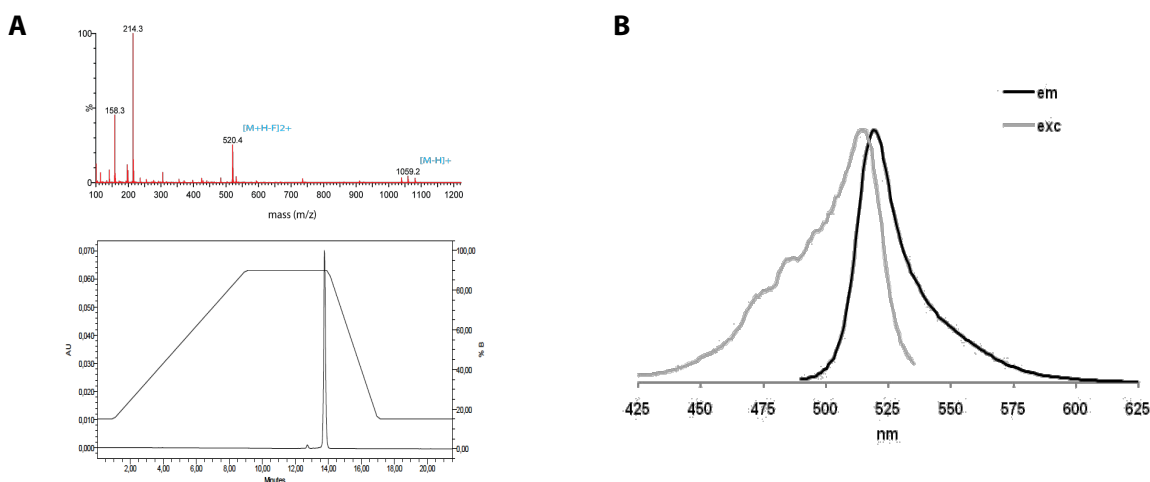


Figure 1. A: MS and HPLC profile UbiQ-018 (A= 0.05% TFA in water, B= 0.05% TFA in CH₃CN). **B:** Fluorescence spectrum of UbiQ-054 measured in water, displaying $\lambda_{\text{exc}} = 515 \text{ nm}$ and $\lambda_{\text{em}} = 519 \text{ nm}$.

Sample preparation

- **standard stock for storage: 10 mM in DMSO= 10.6 mg/mL (50 ug= 4.7 uL DMSO)**
- **standard stock for labeling experiments: dilute the 10 mM DMSO stock 200x to a DMSO stock of 50 uM**
- **standard labeling concentrating of live cells: 250 nM (from 50 uM DMSO stock)**
- **for detailed experimental procedures see references 1 and 2.**

Literature. (1) Berkers et al. *Mol. Pharm.* **2007**, *4*, 739. (2) Berkers et al. *Mol. Pharm.* **2012**, *9*, 1126.