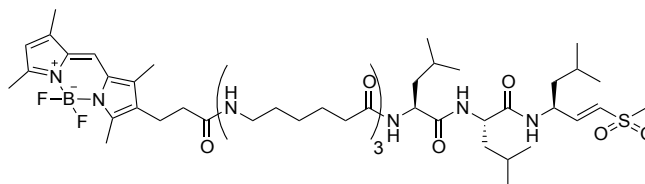


# UbiQ

targeting the ubiquitin system



## Me<sub>4</sub>BodipyFL-Ahx<sub>3</sub>Leu<sub>3</sub>VS (synthetic)

UbiQ code : UbiQ-018

Batch # : B01092013-001

Amount : 50 ug, lyophilized powder

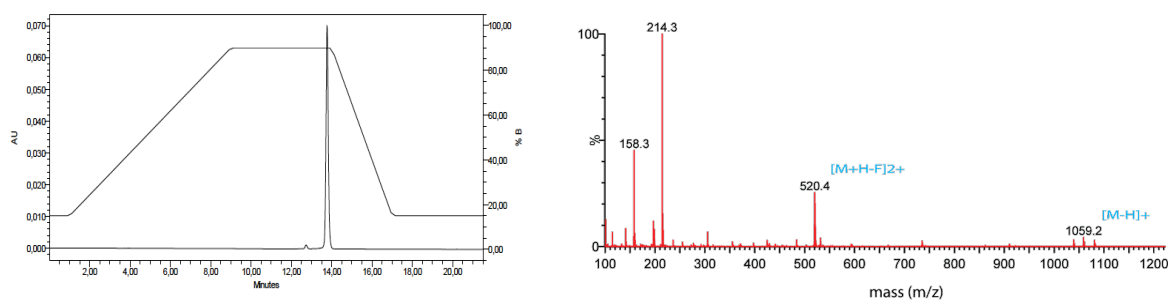
Purity : ≥95% by RP-HPLC

Mol. Weight : 1.06 kDa

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

## Productsheet

**Background.** Me<sub>4</sub>BodipyFL-Ahx<sub>3</sub>Leu<sub>3</sub>VS is a fluorescent proteasome activity probe<sup>2</sup> 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 in-gel scanning ( $\lambda_{\text{ex}}=480\text{ nm}$ ,  $\lambda_{\text{em}}=530\text{ nm}$ ) 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.



**Figure 1.** LC-MS profile UbiQ-018 (A= 0.05% TFA in water, B= 0.05% TFA in CH<sub>3</sub>CN).

## 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 concentration of live cells: 500 nM (from 50 uM DMSO stock)
- $\lambda_{\text{ex}}=480\text{ nm}$
- $\lambda_{\text{em}}=530\text{ nm}$
- for detailed experimental procedures see reference 2.

**Literature.** (1) Berkers et al. *Mol. Pharm.* **2012**, *9*, 1126. (2) de Jong et al. *Methods Mol. Biol.* **2012**, *803*, 183.