UbiQ
targeting the ubiquitin system

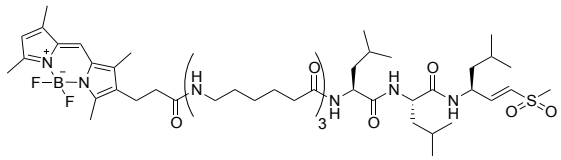
Me_4BodipyFL-Ahx_3Leu_3VS *(synthetic)*

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. UbiQ-018 (Me_4BodipyFL-Ahx_3Leu_3VS) is a fluorescent activity-based probe for the proteaseome. It allows 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 (exc= 480 nm, emi= 530 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.

A



B

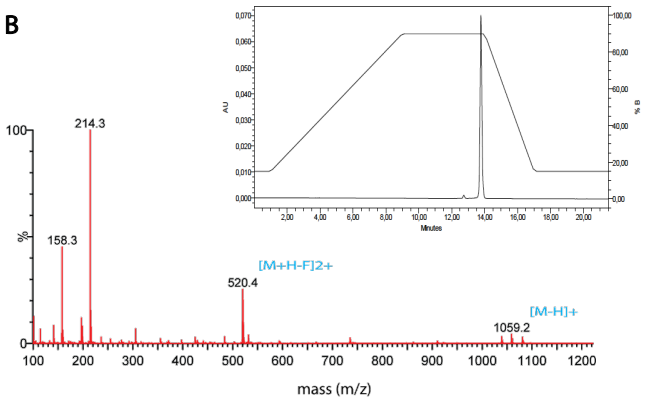


Figure 1. A: UbiQ-018. B: LC-MS analysis, buffer A= 0.05% TFA in water, buffer B= 0.05% TFA in CH_3CN.

sample preparation

- standard stock for storage: 10 mM in DMSO= 10.6 mg/mL (50 ug in 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: 500 nM (from 50 uM DMSO stock)
- 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.

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