

Ub-VME (human sequence, synthetic)

UbiQ code : UbiQ-005 Batch # : B01092012-001

Amount : 50 ug, lyophilized powder

Purity : ≥95% by RP-HPLC

Mol. Weight: 8.61 kDa

Storage: upon arrival, powder at -20°C, buffered solution at -80°C. Please avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-005 is an activity-based probe for deubiquitinating enzymes (DUBs) that is based on ubiquitin functionalised with a C-terminal electrophilic vinyl methyl ester (VME). It can be used for activity profiling experiments, determining DUB inhibitor specificity and structural studies.

sequence

mqifvktltgktitlevepsdtienvkakiqdkegippdqqrlifagkqledgrtlsdyniqkestlhlvlrlrg-**VME**

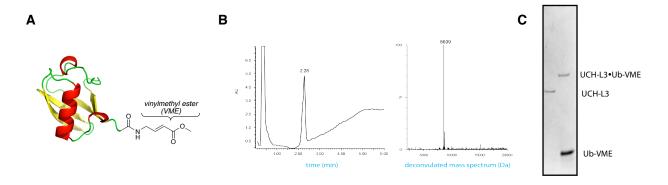


Figure 1. A: UbiQ-005. B: LC-MS analysis. Mobile phase A=1% CH₃CN, 0.1% formic acid in milliQ and B=1% milliQ and 0.1% formic acid in CH₃CN. Phenomenex Kinetex C18, (2.1×50 mm, 2.6 μ M); flow rate = 0.8 mL/min, column T = 40°C. Gradient: 5–95%B over 3.5 min. C: SDS-PAGE analysis (12%, MES buffer) of reaction between UCH-L3 and UbiQ-005 (excess).

important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g., 20 40 mg/mL)
- add this DMSO stock slowly to milliQ (please note the order of addition).
- buffer as desired

Literature. (1) Galardy et al. Methods in Enzymology 2005, 399, 120. (2) de Jong et al. ChemBioChem 2012, 13, 2251.