

UbiQ

targeting the ubiquitin system

Ub-VS (human sequence, synthetic)

UbiQ code : UbiQ-108

Batch # : B01065021-001

Amount : 50 ug, lyophilized powder

Purity : $\geq 95\%$

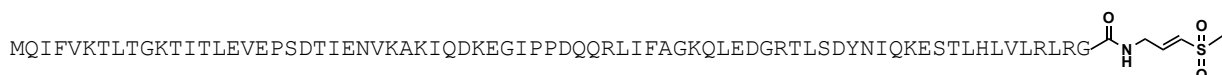
Mol. Weight : 8.62 kDa

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

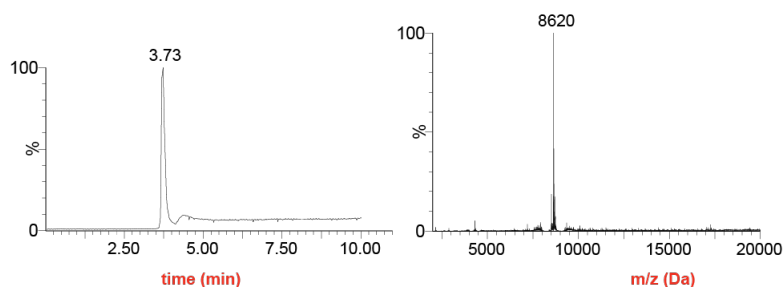
Productsheet

Background. Ub-VS (UbiQ-108) is an activity-based probe for deubiquitinating enzymes (DUBs) based on ubiquitin functionalised with a C-terminal electrophilic vinyl sulfone (VS) group. It can be used for activity profiling experiments, determining DUB inhibitor specificity and structural biology studies of DUB-Ub complexes.

A



B



C



Figure 1. A: sequence. B: LC-MS analysis. Mobile phase A= 1% CH_3CN , 0.1% formic acid in milliQ and B= 1% milliQ and 0.1% formic acid in CH_3CN . XBridge BEH300 C18 $5\mu\text{m}$ $4.6 \times 100\text{mm}$; column T= 40°C , flow= 0.8 mL/min. Gradient: 30–80%B over 6.5 min. C: SDS-PAGE analysis. 12% Bolt Bis-Tris Plus gel (Life technologies) and MES running buffer. Instant Blue staining.

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 the aq. solution as desired

Literature. (1) de Jong et al. *ChemBioChem* **2012**, *13*, 2251.