

# UbiQ

targeting the ubiquitin system

## Biotin-Ahx-Ub (human sequence, synthetic)

UbiQ code : UbiQ-090

Batch # : B01072014-001

Amount : 100 ug, lyophilized powder

Purity : ≥95%

Mol. Weight : 8.90 kDa

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

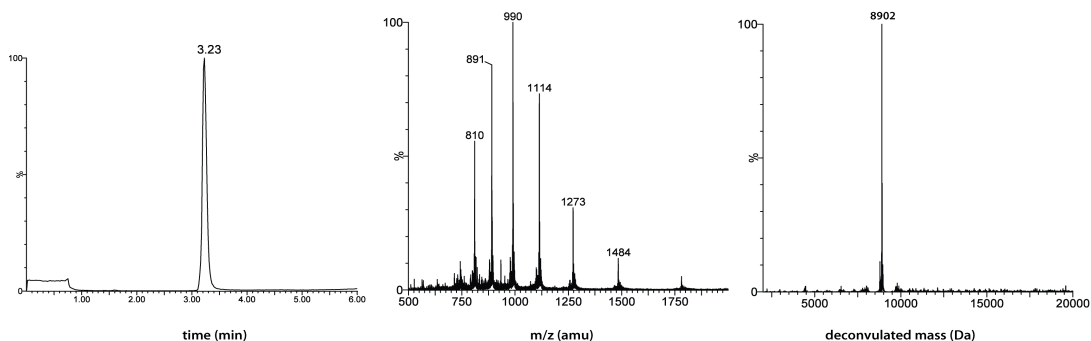
## Productsheet

**Background.** UbiQ-090 is based on ubiquitin (Ub) which is labeled on the *N*-terminus with biotin; a 6-aminohexanoic acid (Ahx) linker is used to create extra space between the biotin and Ub protein for efficient access of biotin binding entities.

A

Biotin-Ahx-MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRGG

B



**Figure 1.** Sequence (A) and LC-MS analysis (B) UbiQ-090. Mobile phase A= 1% CH<sub>3</sub>CN, 0.1% formic acid in water and B= 1% water and 0.1% formic acid in CH<sub>3</sub>CN. XBridge BEH300 C18 5µm 4.6x100mm; column T = 40°C, flow= 0.8 mL/min. Gradient: 30–95% over 3.5 min.

### important: sample preparation

- dissolve the powder in as little DMSO as possible (20 - 40 mg/mL)
- add the DMSO stock to milliQ (please note the order of addition) and mix
- buffer the aq. solution as desired

**Literature.** (1) El Oualid et al. *Angew Chem Int Ed* **2010**, *49*, 10149.