

UbiQ

targeting the ubiquitin system

Ubiquitin(1-75) (human sequence, synthetic)

UbiQ code : UbiQ-344

Batch # : B01115022-001

Amount : bulk, lyophilized powder

Purity : $\geq 95\%$

Mol. Weight: 8.51 kDa

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

Productsheet

Background. UbiQ-344 is based on the ubiquitin(1-75) sequence and has been prepared by total chemical synthesis. Since the C-terminal Gly76 residue is missing, it cannot be activated by an E1 enzyme and can only serve as acceptor Ub in enzymatic ubiquitination reactions.

sequence

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG

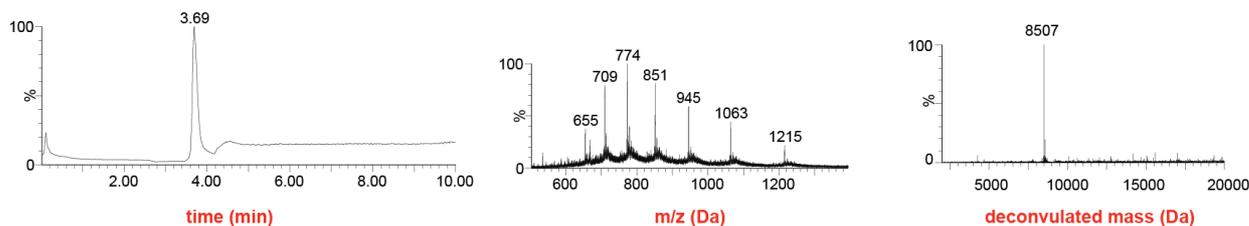


Figure 1. LC-MS analysis. Mobile phase A = 1% CH_3CN , 0.1% formic acid in water (milliQ) and B = 1% water (milliQ) and 0.1% formic acid in CH_3CN . XSelect BEH300 C18 $5\mu\text{m}$ $4.6 \times 100\text{mm}$; column T = 40°C , flow = 0.8 mL/min. Gradient: 30–95% over 6.5 min.

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