

K48 linked di-Ubiquitin (human sequence, synthetic)

UbiQ code : UbiQ-033
 Batch # : B01115022-001
 Amount : bulk, lyophilized powder
 Purity : ≥95% by RP-HPLC.
 Mol. Weight : 17.11 kDa
 Storage : upon arrival, store powder at –20°C, solution at –80°C. Please avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-033 is a native K48 linked di-ubiquitin which can be used as a substrate for proteases that cleave the isopeptide linkage between two ubiquitin molecules. It can also be used to investigate mechanism of binding and recognition by proteins that contain ubiquitin-associated domains or ubiquitin-interacting motifs (UIMs).

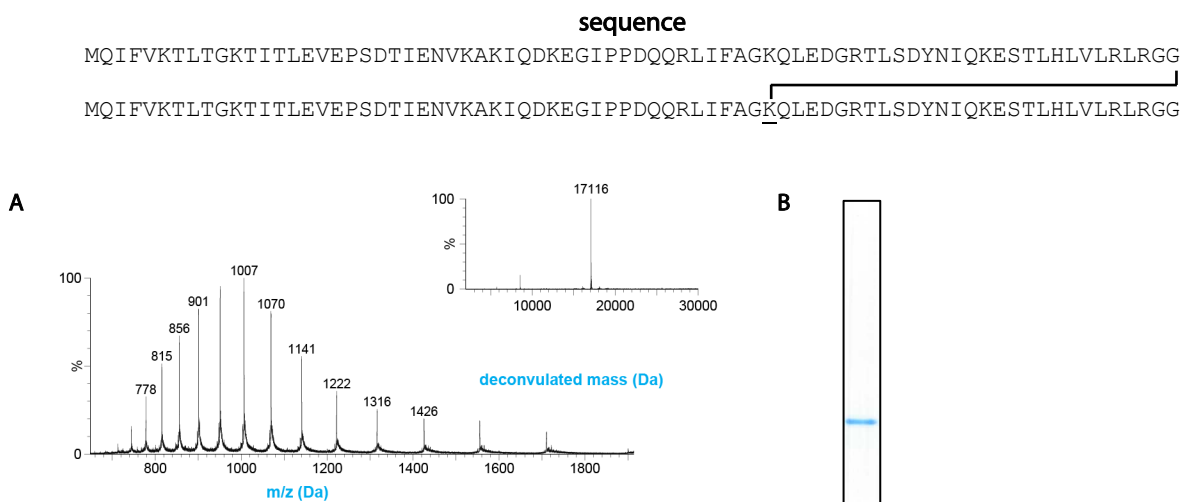


Figure 1. A: MS analysis. B: SDS-PAGE analysis: 12% Bolt Bis-Tris Plus gel (Lifetechnologies) in MES buffer at 190V; Instant Blue staining.

important: sample preparation

- add (for example) 2.5 μ L DMSO to 50 μ g di-ubiquitin and dissolve by a quick spin
- add the DMSO stock (20 mg/mL = 1169 μ M) to milliQ (please note order of addition).
- buffer the aq. solution as desired
- *as an example*, dilution of the 2.5 μ L DMSO stock into 92.5 μ L milliQ followed by addition of 5 μ L 1M HEPES affords a stock of 1/2 mg/mL (29 μ M) in 50 mM HEPES, \pm 2.5 vol% DMSO.

Literature. (1) Faesen et al. *Chemistry & Biology*, **2011**, *18*, 1550. (2) Dikic et al. *Nature Rev Mol Cell Biol* **2010**, *10*, 659. (3) Licchesi et al. *Nature Struct & Mol Biol* **2012**, *19*, 62. (4) El Oualid et al. *Angew Chem Int Ed* **2010**, *49*, 10149.