

K63 linked di-Ubiquitin (human sequence, synthetic)

UbiQ code : UbiQ-034
 Batch # : B01115022-001
 Amount : 50 ug, lyophilized powder
 Purity : ≥95%
 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-034 is a native K63 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).

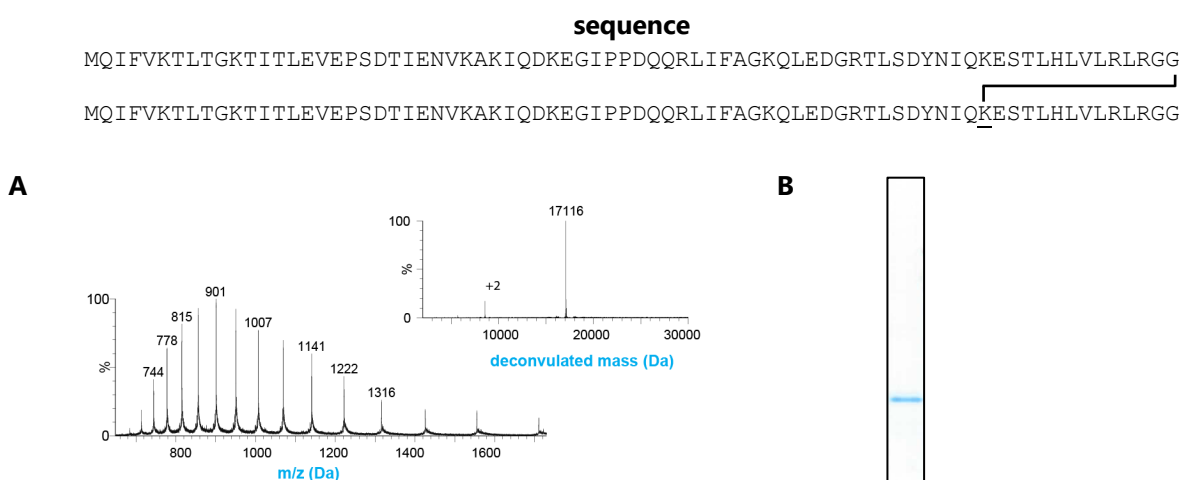


Figure 1. A: MS analysis. B: SDS-PAGE analysis: 12% Bolt Bis-Tris Plus gel (Lifetechnologies) in MES buffer at 190V; Instant Blue staining.

important: sample preparation

- add (for example) 50 µL DMSO to 1.00 mg di-ubiquitin and dissolve by a quick spin
- add the DMSO stock (20 mg/mL = 1169 µM) to milliQ (please note order of addition).
- buffer the aq. solution as desired
- *as an example*, dilution of the 50 µL DMSO stock into 1.85 mL milliQ followed by addition of 100 µL 1M HEPES affords a stock of ½ mg/mL (29 µM) in 50 mM HEPES, ±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.