

# UbiQ

targeting the ubiquitin system

## Linear di-ubiquitin (human sequence, recombinant protein)

UbiQ code : UbiQ-070

Batch # : B01012013-001

Amount : 50 ug, lyophilized powder

Purity :  $\geq 95\%$  by RP-HPLC and SDS-PAGE

Mol. Weight : 17.11 kDa

Storage : upon arrival, store powder at  $-20^{\circ}\text{C}$ , solution at  $-80^{\circ}\text{C}$ . Please avoid multiple freeze/thaw cycles.

## Productsheet

**Background.** UbiQ-070 is native linear (i.e. Met1) linked di-ubiquitin which can be used as a substrate for proteases that cleave the peptide linkage between two ubiquitin proteins or to investigate mechanism of binding and recognition by proteins that contain ubiquitin-associated domains or ubiquitin-interacting motifs (UIMs). This product was prepared by recombinant expression (*E. coli*).

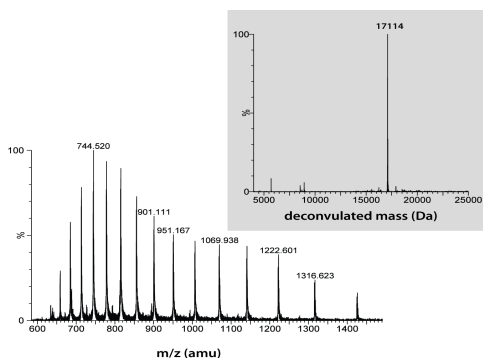
A

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLGG  
MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLGG

B



C



**Figure 1.** A: sequence UbiQ-070. B: SDS-PAGE analysis: 12% gel, MES buffer, Coomassie Brilliant Blue staining. C: MS analysis.

### important - sample preparation

- add 2.5  $\mu\text{L}$  DMSO to 50  $\mu\text{g}$  diUb sample and dissolve by a quick spin in the (ultra)centrifuge.
- add the DMSO stock (= 1169  $\mu\text{M}$ ) 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. (2) Faesen et al. *Chemistry & Biology* **2011**, *18*, 1550. (3) Dikic et al. *Nature Rev Mol Cell Biol* **2010**, *10*, 659. (4) Licchesi et al. *Nature Struct & Mol Biol* **2012**, *19*, 62.