UbiQ
targeting the ubiquitin system

H2A(113-127) K120Ub *(human sequence, synthetic)*

UbiQ code	:	UbiQ-061
Batch #	:	B27042012-001
Amount	:	50 ug, lyophilized powder
Purity	:	≥95% by RP-HPLC
Mol. Weight	:	10.22 kDa
Storage	:	upon arrival, powder at −20°C, solution at −80°C. Please avoid multiple freeze/thaw cycles.

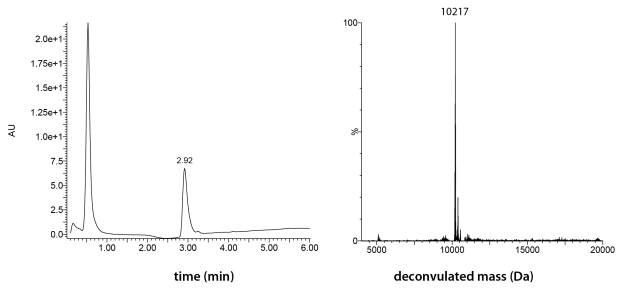
Productsheet

Background. UbiQ-061 is a H2A(113-127) peptide which is modified at K120 via a native isopeptide bond with ubiquitin (Ub). It can be used as a substrate for ubiquitin proteases, to investigate mechanism of binding and recognition by proteins that contain ubiquitin-associated domains or ubiquitin-interacting motifs (UIMs) and as antigen for immunizations.

A

QAVLLPKK(Ub)TESHHKA

B



C

Figure 1. A: sequence UbiQ-061. B: 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. Phenomenex Kinetex C18, (2.1×50 mm, 2.6 µM); flow rate = 0.5 mL/min, column T = 40°C. Gradient: 5-95%B over 3.5 min. C: SDS-PAGE analysis. 12% Bolt Bis-Tris Plus gel (Life technologies), MES buffer, CBB staining.

important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g. 20 mg/mL= 1.8 mM)
- add this DMSO stock slowly to milliQ (please note the order of addition)
- buffer the aq. solution as desired

Literature. (1) Faesen et al. *Chem & Biol* **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.

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