UbiQ
targeting the ubiquitin system

Ub K48C *(human sequence, recombinant)*

UbiQ code	:	UbiQ-179
Batch #	:	B01092016-001
Amount	:	1.00 mg, lyophilized powder
Purity	:	≥95%
Mol. Weight	:	8.54 kDa
Storage	:	upon arrival, powder at −20°C; solution at −80°C. Please avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-179 is based on the ubiquitin protein (Ub) in which lysine 48 has been mutated to a cysteine residue. Ub Lys-to-Cys mutants can be used to prepare well-defined Ub-chains and site-selective functionalized Ub proteins (using thiol reactive moieties).

A

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGCQLEDGRTLSDYNIQKESTLHLVLRLRGG

B

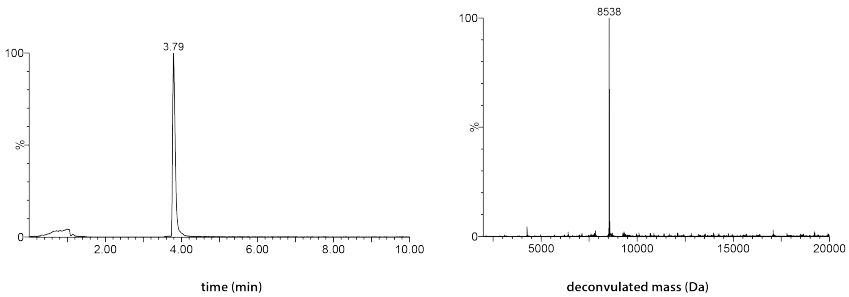

Figure 1. A: sequence. B: LC-MS analysis. Mobile phase A= 1% CH_3CN, 0.1% formic acid in water and B= 1% water and 0.1% formic acid in CH_3CN. XBridge BEH300 C18 5µm 4.6x100mm; flow rate= 0.8 mL/min, column T = 40°C. Gradient: 30-60% B over 6.5 min.

important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g. 20 - 40 mg/mL)
- add the DMSO stock slowly to milliQ (please note the order of addition)
- buffer the aq. solution as desired (e.g. 50 mM HEPES pH 8, 100 mM NaCl)
- for example, a final buffered stock of 0.5 mg/mL (59 uM) will contain 1.25 vol% DMSO when prepared from a 40 mg/mL DMSO stock.

Literature. (1) Raasi et al *Methods Mol Biol.* **2005**, *301*, 47. (2) Valkevich et al. *J Am Chem Soc.* **2012**, *134*, 6916.

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