

SUMO2-Dha (human sequence, C48S, synthetic)

UbiQ code : UbiQ-117 Batch # : B01072015-001

Amount : 50 ug, lyophilized powder

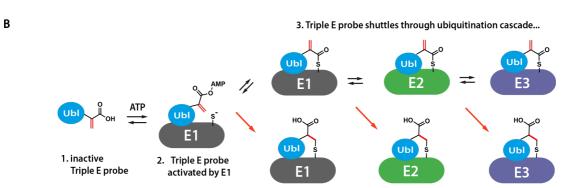
Purity : ≥95% Mol. Weight : 10.6 kDa

Storage: upon arrival, powder at -20°C; solution at -80°C. Please avoid multiple freeze/thaw cycles.

## **Productsheet**

**Background.** UbiQ-117 (SUMO2-Dha) is an activity-based probe for SUMO E1, E2 and (HECT/RBR) E3 ligases. It is based on the SUMO2 sequence in which the C-terminal Gly has been replaced by a dehydroalanine residue and Cys48 by a Ser residue. UbiQ-117 is processed in a native manner by SUMO E1, E2 and E3 enzymes and during this process it forms an electrophilic intermediate that can react with the active site Cys residue, thereby creating a covalent bond (Figure 1).

Α



4. ... or irreversibly traps active enzymes in the cascade.

Figure 1. A: Sequence UbiQ-117. B: mode of action.

## important: sample preparation

- dissolve the powder in as little DMSO as possible (20 40 mg/mL)
- add the DMSO stock to milliQ (please note the order of addition) and mix
- buffer the aq. solution as desired
- For full details please see open-access reference 1: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5108872/

Literature. (1) Mulder et al. Nat Chem Biol 2016, 12, 523.