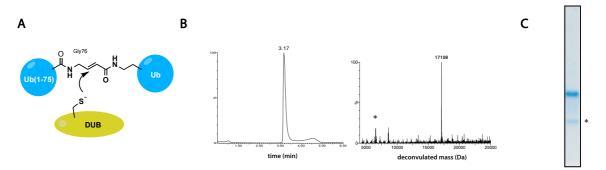


## K6 Di-Ubiquitin VME (human sequence, synthetic)

UbiQ code	: UbiQ-081
Batch #	: B15012015-001
Amount	: 50 ug, lyophilized powder
Purity	: ±90%*
Mol. Weight	: 17.11 kDa
Storage	: upon arrival, powder at $-20^{\circ}$ C; solution at $-80^{\circ}$ C. Please avoid multiple freeze/thaw cycles.

## Productsheet

**Background.** UbiQ-081 is an activity-based probe for deubiquitinating enzymes (DUBs) based on K6 linked diUb. Here Lys6 has been replaced by a diaminobutyric acid residue equipped with a VME type warhead - the Dab(VME) type of structure is a DUB reactive mimic of the native isopeptidic linked Lys(Gly) residue (Figure 1). The native distance between the proximal and distal Ub is preserved as much as possible.



**Figure 1**. A: Mode of action UbiQ-081. B: LC-MS analysis. Mobile phase A = 1% CH<sub>3</sub>CN, 0.1% formic acid in milliQ and B = 1% milliQ and 0.1% formic acid in CH<sub>3</sub>CN. XBridge BEH300 C18 5µm 4.6x100mm; column T = 40°C, flow = 0.8 mL/min. Gradient: 30–95% B over 3.5 min. C: SDS-PAGE analysis. 12% Bolt Bis-Tris Plus gel (Life technologies), MES running buffer. CBB staining.

\* Based on SDS-PAGE analysis, there is some Ub(1-75) present in the sample but this does not interfere with DUB labeling experiments.

## Important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g., 20 mg/mL)
- add this DMSO stock slowly to milliQ (please note the order of addition) and mix
- buffer the aq. stock as desired
- For more details see (open-access) reference 1: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4159580/

Literature. (1) Mulder & El Oualid et al. ChemBioChem 2014, 15, 946.

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