

UbiQ

targeting the ubiquitin system

K6 Di-Ubiquitin VME (human sequence, synthetic)

UbiQ code : UbiQ-081

Batch # : B15012015-001

Amount : 25 ug, lyophilized powder

Purity : \pm 90% by RP-HPLC and SDS-PAGE analysis

Mol. Weight : calc 17.110 Da, found 17.108 Da by MS

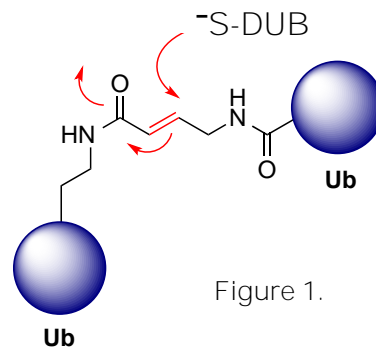
Storage : powder at -20°C ; solution at -80°C . Please avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-081 is a potent, irreversible and specific inhibitor of deubiquitinating enzymes (DUBs) based on K6 linked diUb.¹ Here Lys6 has been replaced by a diamino butyric acid residue equipped with a VME type warhead.³ The Dab(VME) type of structure is a DUB reactive mimic of the native isopeptidic linked Lys(Gly) residue (Fig. 1). DUB activity based probes can be used for activity profiling experiments and structural studies.¹⁻⁸ Please note that the native distance between the proximal and distal Ub is preserved as much as possible in UbiQ-081. For exp. details see (open-access) ref 1: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4159580/>

sample preparation

- buffer the aq. stock as desired (with e.g. 1M HEPES or Tris, pH 7.5 - 8)
- For more details see (open-access) reference: <http://www.ncbi.nlm.nih.gov/pubmed/24623714>



Literature. (1) Mulder & El Oualid et al. *ChemBioChem* **2014**, *15*, 946. (2) Misaghi et al. *J. Biol. Chem.* **2005**, *280*, 1512. (3) de Jong et al. *ChemBioChem* **2012**, *13*, 2251. (4) Altun et al. *Chem. Biol.* **2011**, *18*, 1401. (5) Haj-Yahya et al. *Org. Lett.*, **2014**, *16*, 540. (6) Li et al. *Chem. Commun.* **2014**, *50*, 216. (7) Iphöfer et al. *ChemBioChem* **2012**, *13*, 1416. (8) McGouran et al. *Chem. Biol.* **2013**, *20*, 1447.