

# UbiQ

targeting the ubiquitin system

## Ub-Rh110Gly (human sequence, synthetic)

UbiQ code : UbiQ-002

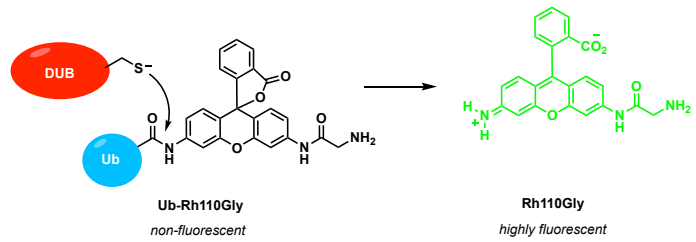
Batch # : B01012021-001

Amount : 100 ug, lyophilized powder

Purity :  $\geq 95\%$  by LC-MS

MW : 8.93 kDa

Storage : upon arrival, powder at  $-20^{\circ}\text{C}$ ; solution at  $-80^{\circ}\text{C}$ . Please store in dark and avoid multiple freeze/thaw cycles.

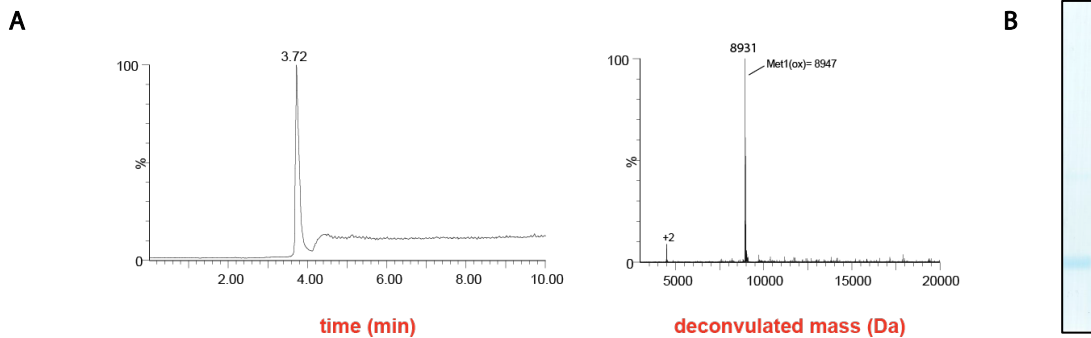


## Productsheet

**Background.** UbiQ-002 (Ub-Rh110Gly) is a quenched fluorogenic substrate for deubiquitinating enzymes. It is based on ubiquitin that is functionalised with a C-terminal rhodamine110Gly (Rh110Gly). Cleavage of the amide bond between the C-terminal Gly and Rh110 releases the fluorescent Rh110Gly dye (exc 485 nm, emi 535 nm, Figure 1).

### sequence

MQIIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPPDQQRLLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGG-Rh110Gly



### 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)
- buffer the aq. solution as desired

**Literature.** (1) Tirat et al. *Analytical Biochem* **2005**, *343*, 244. (2) Hassiepen et al. *Analytical Biochem* **2007**, *371*, 201. (3) El Oualid et al. *Angew Chem Int Ed* **2010**, *49*, 10149.