UbiQ
targeting the ubiquitin system

Ub-Rh110Gly *(human sequence, synthetic)*

UbiQ code	:	UbiQ-002
Batch #	:	B01022015-001
Amount	:	100 ug, lyophilized powder
Purity	:	≥95% by RP-HPLC and SDS-PAGE
MW	:	8.93 kDa
Storage	:	upon arrival powder at –20°C; solution at –80°C. Please protect from light and avoid multiple freeze/thaw cycles.

Productsheet

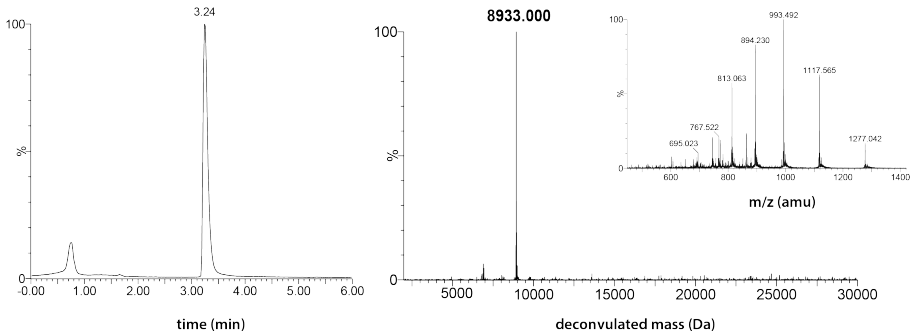
Background. Ub-Rh110Gly is a quenched, fluorescent substrate for deubiquitylases (DUBs), especially ubiquitin C-terminal hydrolases,[1,2] prepared by chemical synthesis.[3] Cleavage of the amide bond between Gly76 and the rhodamine110 moiety releases Rh110Gly which results in an increase in fluorescence at 535 nm (Exc. 485 nm).

Sequence

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGG-**Rh110G**

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**
- **final stocks of e.g. 0.5 mg/mL will contain 2.5 vol% DMSO.**
- **buffer exchange using 3 kDa spin filters or dialysis membrane allows total removal of DMSO if desired.**
- **In general, DMSO conc up to 5 vol% are well tolerated by most DUBs**



LC-MS analysis. Mobile phase A= 1% CH_3CN, 0.1% formic acid in milliQ and B= 1% milliQ and 0.1% formic acid in CH_3CN. XBridge BEH300 C18 5µm 4.6x100mm; column T= 40°C, flow= 0.8 mL/min. Gradient: 30–95% over 3.5 min.

Literature. (1) Tirat et al., *Analytical Biochem.* **2005**, *343*, 244-255. (2) Hassiepin et al. *Analytical Biochem.* **2007**, *371*, 201-207. (3) El Oualid et al. *Angew. Chem. Int. Ed.* **2010**, *49*, 10149.

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