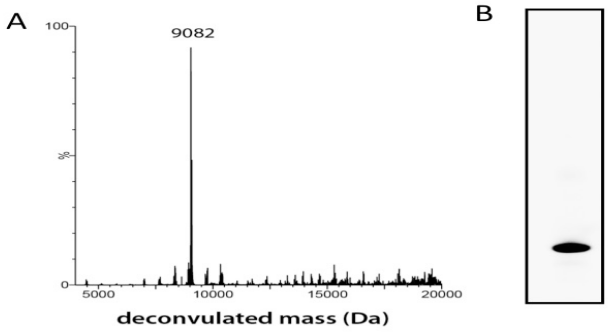
Cy5-Ub-VME

Cat. # M1040

Quantity:	25 µg
Also Known as:	N/A
MW (no tag):	9.1 kDa
Species:	Human
Source:	Synthetic
Form:	Lyophilized powder
Quality Assurance:	~95% by RP-HPLC

Image



A. LC-MS analysis.
B. SDS-PAGE analysis, 12% gel, MES buffer. Fluorescence visualization (650/690 nm).

Description: Cy5-Ub-VME is a potent, irreversible and specific inhibitor of deubiquitinating enzymes (DUBs), which is labeled on the N-terminus with a Cy5 dye (Cy5, Ex 625-650 nm, Em 670 nm). This ubiquitin-based activity probe can be used for activity profiling experiments and labeling of DUBs with a fluorecent marker (Cy5). Cy5 labelling allows for detection of DUB labeling by in-gel fluorescence.

Storage: Powder at -20 ^{0}C; solution at -80 ^{0}C; avoid multipe freeze/thaw cycles.

Reconstitution Recommendation (Important!):

1) Centrifuge the tube at 10,000 xg for 2 min to pellet the powder.
2) Dissolve the powder in a small amount of DMSO (e.g. 25 µg powder in 1 µL DMSO). Vortex the tube to completely dissolve the powder. Keep under room temperature for 5 min, and then centrifuge under room temperature at 10,000 xg for 2 min to collect solution to the tube bottom.
3) Add 49 µL colde buffer (such as 20 mM Tris, pH 7.2, 150 mM NaCl and 10% glycerol) directly into the tube bottom in once, and pipette up and down to mix (avoid generating bubbles and note the order of addition).
4) The stock solution is 0.5 µg/µL (55 µM). Working concentrations vary from 0.5 – 2 µM.

Literature:

1. Misaghi et al. J. Biol. Chem. 2005, 280, 1512.
2. de Jong et al. ChemBioChem 2012, 13, 2251.
3. Altun et al. Chem. Biol. 2011, 18, 1401.