Ubiquitin-rhodamine 110

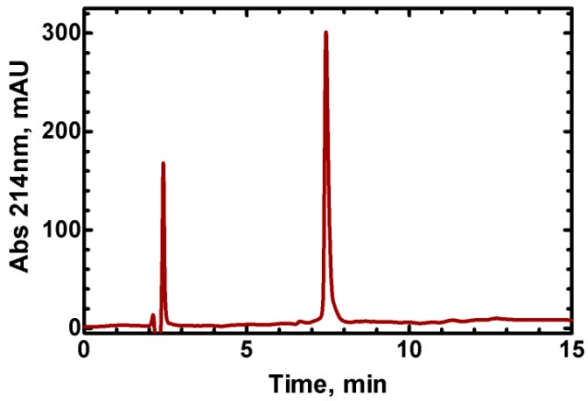
Cat. # SI230

Background: Ubiquitin-rhodamine 110 is a quenched, fluorescent substrate for deubiquitylases, especially ubiquitin C-terminal hydrolases. Cleavage of the amide bond between the C-terminal glycine of ubiquitin and rhodamine results in an increase in rhodamine fluorescence at 535 nm (Exc. 485 nm).

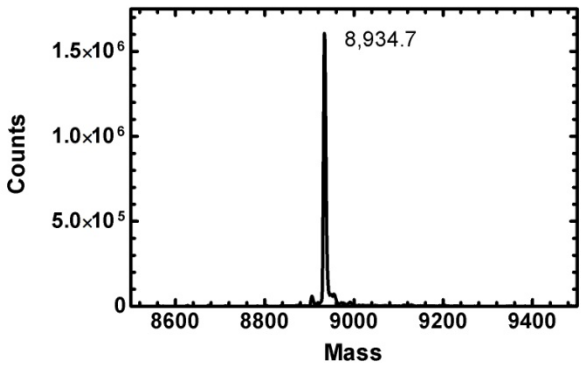
Application: Measurement of deubiquitylase activity.

Product Information

Purity:	≥ 95% by RP-HPLC
Molecular Weight:	8934.2 Da
Physical State:	Lyophilized
Quantity:	50, 250, 500 μg
Solubility:	Aqueous buffers, DMSO
Storage:	-80° C. Avoid repeated freeze/thaw cycles



RP-HPLC



Deconvoluted mass spectrum

References.

Tirat, A., Schilb, A., Riou, V., Leder, L., Gerhartz, B., Zimmermann, J., Worpenberg, S., Eidhoff, U., Freuler, F., Stettler, T., Mayr, L., Ottl, J., Leuenberger, B., and Filipuzzi, I. 2005. Synthesis and characterization of fluorescent ubiquitin derivatives as highly sensitive substrates for the deubiquitinating enzymes UCH-L3 and USP-2. *Anal. Biochem.* **343,**244-255.

Hassiepin, U., Eidhoff, U., Meder, G., Bulber, J.F., Hein, A., Bodendorf, U., Lothois, E., and Martoglio, B., 2007. A sensitive fluorescence intensity assay for deubiquitinating proteases using ubiquitin-rhodamine 110-glycine as substrate. *Anal. Biochem.* **371,**201-207.