Ubiquitin vinylmethylester (Ub-VME)

Cat. # SI240

Background: Ub-VME is synthesized by the conjugation of 4-amino-but-2-enoic methyl ester to the C-terminus of UbiquitinΔG76. Binding of ubiquitin by deubiquitylases (DUBs), for instance UCH's and most USPs, positions the reactive vinyl bond next to the sulfhydryl-group of the active site cysteine. Nucleophilic attack by the sulfhydryl on the vinyl bond produces a stable, covalent thioether bond between Ubiquitin and the deubiquitylase. Thus Ub-VME is a potent suicide inhibitor of DUBs.

Application: This inhibitor is useful for labeling DUBs *in situ* as well as preserving the integrity of polyubiquitin chains on modified proteins for analysis or purification.

Product Information

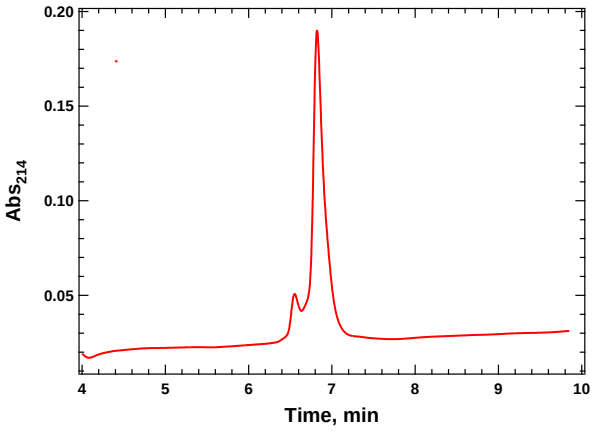
Purity: ≥ 95% by RP-HPLC

Molecular Weight: 8,604.9 Da

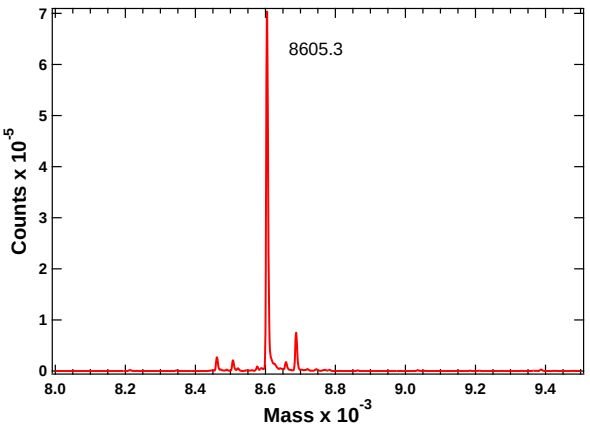
Physical State: lyophilized

Quantity: 50 μg

Storage: -80° C. Avoid repeated freeze/thaw cycles



RP-HPLC



Deconvoluted mass spectrum