SUMO2 Rhodamine 110

Cat. # SI530

Background: Human SUMO2-rhodamine 110 is a quenched, fluorescent substrate for desumoylases, especially SenP1 and SenP2. Cleavage of the amide bond between the C-terminal glycine of SUMO2 and rhodamine results in an increase in rhodamine fluorescence at 535 nm (Exc. 485 nm)..

Application: Measurement of desumoylase activity.

Product Information

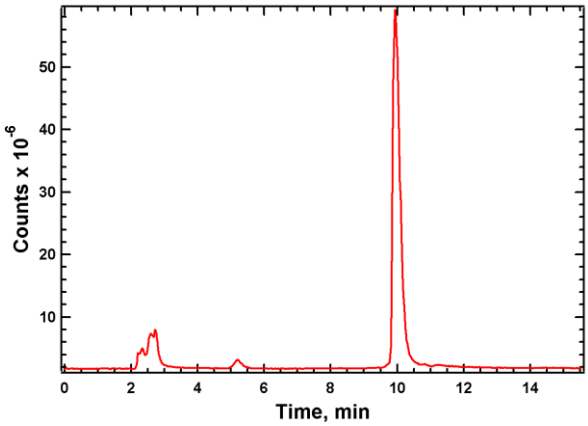
Purity: ≥ 95% by RP-HPLC

Molecular Weight: 10,831.1 Da

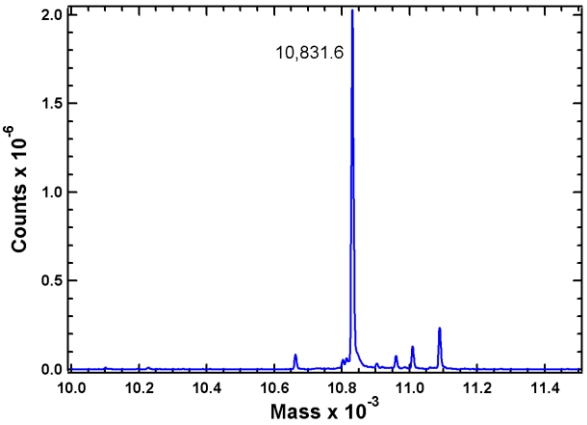
Physical State: Lyophilized powder

Quantity: 50 μg

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



RP-HPLC



Deconvoluted mass spectrum

References

1. Shanmugham A and Ovaa H. (2008) DUBs and disease: activity assays for inhibitor development. *Curr Opin Drug Discov Devel.* **11,**688-96.
2. Mason, D.E., Ek, J., Peters, E.C. and Harris J.L. (2004) Substrate profiling of deubiquitin hydrolases with a positional scanning library and mass spectrometry. *Biochemistry* **43,**6535-44.
3. Dang, L. C., F. D. Melandri, and R. L. Stein. (1998) Kinetic and mechanistic studies on the hydrolysis of ubiquitin C-terminal 7-amido-4-methylcoumarin by deubiquitinating enzymes. *Biochemistry* **37,**1868-1879.
4. Stein RL, Chen Z, Melandri F. (1995) Kinetic studies of isopeptidase T: modulation of peptidase activity by ubiquitin. *Biochemistry* **34,**12616-23.

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Cat. # SI530, Lot # 42787.001

Specific activity test in the presence of SUMO Protease