Ubiquitin-K48R

Cat. # SI217

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Background

A mutant form of recombinant ubiquitin where lysine at position 6 has been replaced by arginine.

Ubiquitin is a small polypeptide that can be conjugated via its C-terminus to the amine group of a lysine residue on target proteins. This conjugation is referred to as monoubiquitination. Additional ubiquitin moieties can subsequently be conjugated to the initial ubiquitin using any one of the seven lysine residues on its surface. The formation of these ubiquitin chains is referred to as polyubiquitination.

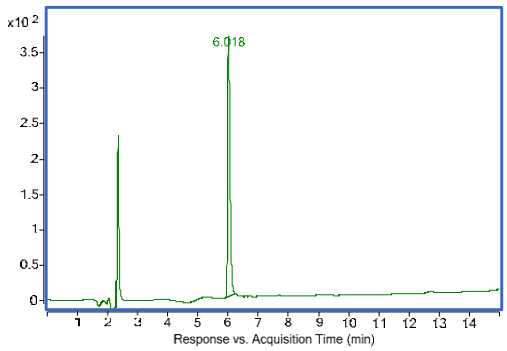
Application(s)

- Synthesis of polyubiquitin chains that lack the lysine 48-linkage for structural or DUB linkage specificity studies
- Determination if polyubiquitin chain formation is through the lysine 48-linkage

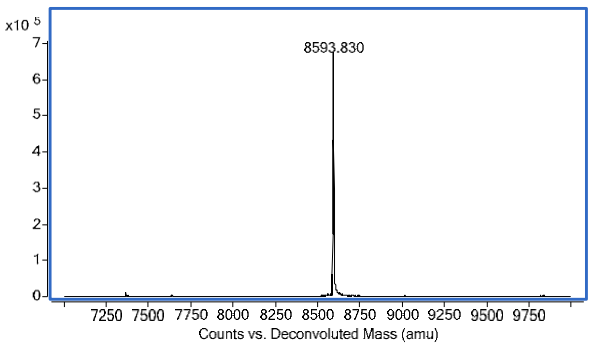
Product Specifications

Tag	None
Purity	≥ 95% by RP-HPLC AND SDS-PAGE
Molecular Weight	8,592.9 Da
Quantity	1 mg at 4 mg/ml
Species	Human
Expression System	*E. Coli*
Physical State	Liquid
Buffer	20 mM Tris, pH 7.5, 0.15 M NaCl, 10% glycerol
Stability & Storage	Over 1 year -80˚C. Avoid repeated freeze/thaw cycles

Product QC



RP-HPLC



Deconvoluted MS

References

1. Buneeva O, Medvedev A. Int J Mol Sci. 2022;23(7):3705.
2. Ohtake F., et al., Proc Natl Acad Sci U S A. 2018;115(7): E1401-E1408.
3. Marblestone, JG et al., J Biomol Screen. 2010; 15(10):1220-8.
4. Ciechanover, A. Biochem Soc Trans. 2003; 31(2): 474-81.