K27-linked di-ubiquitin (Ub2)

Cat. # SI2702

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Background K27-linked diubiquitin (Ub2) is a diubiquitin molecule linked by a native isopeptide bond between the C-terminal glycine of the distal ubiquitin and the ε-amino group of lysine 27 on the proximal ubiquitin. The product is generated using chemical ligation. Recent reports suggest that K27-linked chains play a role primarily in the intracellular innate immune response pathway, as well as in the DNA damage repair response. It is a useful substrate for identifying and characterizing deubiquitinating enzymes that specifically cleave the K27 linkage, and for structural and binding studies of ubiquitin chain recognition by ubiquitin-associated domains (UBA domains) or ubiquitin-interacting motifs (UIMs).

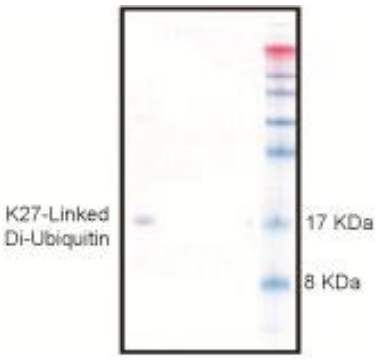
Alternate Names DiUbiquitin, Ub2

Application(s) Investigation of DUB linkage specificity.

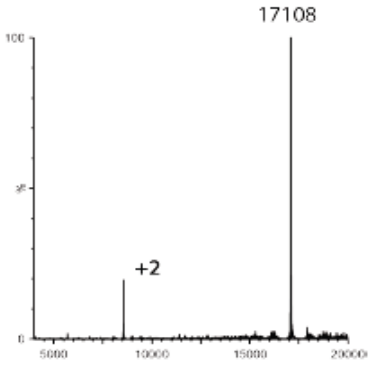
Product Specifications

Tag	None
Purity	≥ 95% by RP-HPLC
Molecular Weight	17108 Da by MS (calculated 17112 Da)
Quantity	25 µg
Species	Human
Expression System	*E. Coli*
Physical State	Liquid at 0.5 mg/ml
Buffer	20 mM Tris-HCl, pH 7.5, 0.15 M NaCl, 1 mM EDTA
Storage	-80°C. Avoid repeated freeze/thaw cycles

Product QC



SDS-PAGE Analysis



Mass Spectrum

References

1. van Tilburg GBA, et al., Cell Chem Biol. 2021;28(2):191-201.