UBPBio
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K33-linked diUb

Cat. # D5410

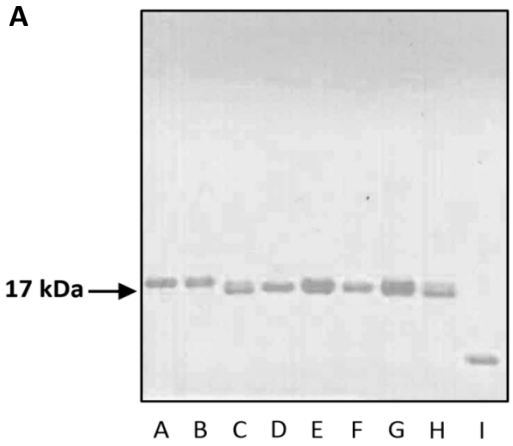
Quantity: 25 µg
Species: Human
Source: Synthetic
MW: 17107 Da
Form: Lyophilized powder
Quality Assurance: ≥95% by RP-HPLC and SDS-PAGE
Sequence:

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGG

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGG

Description: K33-linked diUb is a native K33 linked di-Ub which can be used as a substrate for proteases that cleave the isopeptide linkage between two ubiquitin molecules. It can also be used to investigate mechanism of binding and recognition by proteins that contain ubiquitin-associated domains or ubiquitin-interacting motifs (UIMs). This product is formed by chemical ligation.

Images



Coomassie-stained SDS-PAGE of 1 mg each diUb
A: Linear diUb
B: K6-linked diUb
C: K11-linked diUb
D: K27-linked diUb
E: K29-linked diUb
F: K33-linked diUb
G: K48-linked diUb
H: K63-linked diUb
I: Ubiquitin

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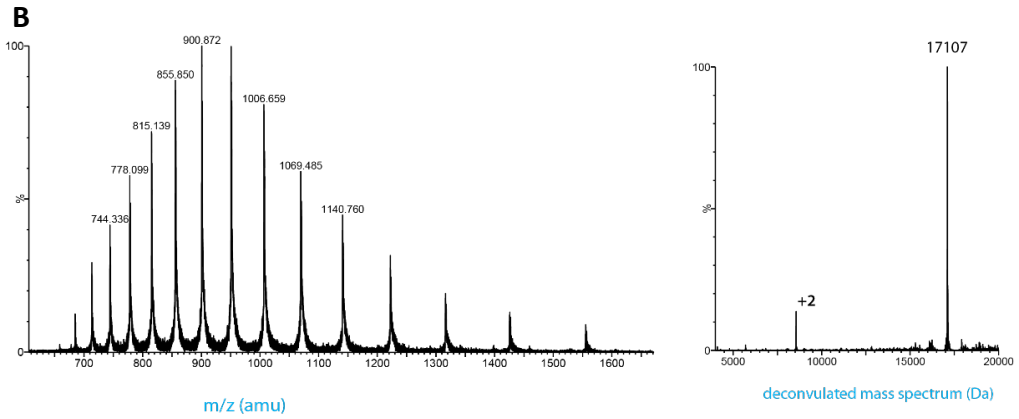

B: LC-MS analysis. Mobile phase A = 1% CH_3CN, 0.1% formic acid in water (milliQ) and B = 1% water (milliQ) and 0.1% formic acid in CH_3CN. Phenomenex Kinetex C18, (2.1×50 mm, 2.6 µM); column T = 40°C.

Storage: Powder at −20°C; Solution at −80°C. Please avoid multiple freeze/thaw cycles.

Sample Preparation (Important!):

1) Centrifuge the tube at 10,000 xg for 2 min to pellet the powder.
2) Dissolve the powder in a small amount of DMSO (e.g. 25 µg powder in 1 µL DMSO). Vortex the tube to completely dissolve the powder. Keep under room temperature for 5 min, and then centrifuge under room temperature at 10,000 xg for 2 min to collect solution to the tube bottom.
3) Add 49 µL colde buffer (such as 20 mM Tris, pH 7.2, 150 mM NaCl and 10% glycerol) directly into the tube bottom in once, and pipette up and down to mix (avoid generating bubbles and note the order of addition).
4) The stock solution is 0.5 µg/µL (29 µM).

Literature:

1. A. Faesen *et al.* , (2011) Chemistry & Biology, 18, 1550.
2. I. Dikic *et al.* , (2010) Nature Reviews Molecular Cell Biology 10, 659.
3. J. D. F. Licchesi *et al.* , (2012) Nature Structural & Molecular Biology 19, 62.
4. F. El Oualid *et al.* , (2010) Angewandte Chemie Int. Ed. 49, 10149.