

LRRASLG-GG-H2B(113-125) K120Ub (human sequence, synthetic)

UbiQ code : UbiQ-332 Batch # : B01065022-001

Amount : 50 ug, lyophilized powder Purity : ≥95% by RP-HPLC

Mol. Weight: 10.81 kDa

Storage : upon arrival, powder at -20°C, solution at -80°C. Please avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-332 is based on an H2B(113-125) peptide which is modified at K120 via a native isopeptide bond with ubiquitin (Ub); modified on the N-terminus with a PKA (cAMP-dependent Protein Kinase) sequence: LRRASLG; a Gly-Gly linker is used to create extra space between the PKA and H2B peptide sequence. It can be used as a substrate for ubiquitin proteases, to investigate mechanism of binding and recognition by proteins that contain ubiquitin-associated domains or ubiquitin-interacting motifs (UIMs) and as antigen for immunizations.



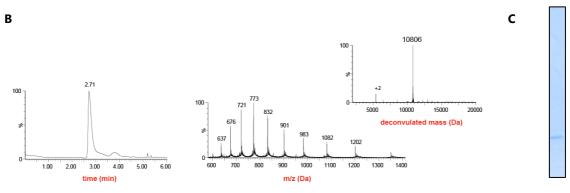


Figure 1. A: sequence. B: LC-MS analysis. Mobile phase A=1% CH₃CN, 0.1% formic acid in milliQ and B=1% milliQ and 0.1% formic acid in CH₃CN. XBridge BEH300 C18 3.5 μ m 4.6x100mm; column T= 40°C, flow= 0.8 mL/min. Gradient: 30–80% B over 3.5 min. C: SDS-PAGE analysis. 12% Bolt Bis-Tris gel (LifeTechnologies), 190 V, MES buffer. Staining with InstantBlue Protein Stain (Expedeon).

important: sample preparation

- dissolve the powder in as little DMSO as possible, e.g. 21.6 43.2 mg/mL (2.00 4.00 mM)
- add this DMSO stock slowly to milliQ (please note the order of addition)
- buffer the aq. solution as desired

Literature. (1) Faesen et al. *Chem & Biol* **2011,** *18*, 1550. (2) Dikic et al. *Nature Rev Mol Cell Biol* **2010**, *10*, 659. (3) Licchesi et al. *Nature Struct & Mol Biol* **2012**, *19*, 62. (4) El Oualid et al. *Angew Chem Int Ed* **2010**, *49*, 10149.