

Biotin-Ahx-H2B(106-125) K120Ub (human sequence, synthetic)

UbiQ code	: UbiQ-150
Batch #	: B01112013-001
Amount	: 50 ug, lyophilized powder
Purity	:≥95% by RP-HPLC
Mol. Weight	: 10.99 kDa
Storage	: upon arrival, powder at -20° C; solution at -80° C. Protect from light and avoid multiple freeze/thaw cycles.

Productsheet

Background. UbiQ-150 is based on an H2B(106-125) peptide which is modified at K120 via a native isopeptide bond with ubiquitin (Ub) and modified on the N-terminus with biotin. An aminohexanoic acid (Ahx) linker is used to create extra space between the biotin and H2A peptide for efficient access of biotin binding entities. 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.

sequence Biotin-Ahx-LAKHAVSEGTKAVTK(Ub)YTSSK

Ub= mqifvktltgktitlevepsdtienvkakiqdkegippdqqrlifagkqledgrtlsdyniqkestlhlvlrlrgg

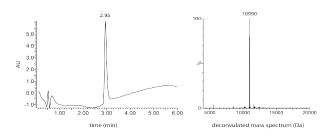


Figure 1. LC-MS analysis. Mobile phase A = 1% CH₃CN, 0.1% formic acid in water (milliQ) and B = 1% water (milliQ) and 0.1% formic acid in CH₃CN. Phenomenex Kinetex C18, (2.1×50 mm, 2.6 μ M); flow rate = 0.5 mL/min, runtime = 6 min, column T = 40°C. Gradient: 5-95% over 3.5 min.

important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g. 20 40 mg/mL)
- add the 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.

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