

Biotin-Ahx-EGTKAVTK(Ub)YTSSK (*human sequence, synthetic*)

UbiQ code : UbiQ-184
Batch # : B01102016-001
Amount : 50 ug, lyophilized powder
Purity : ≥95% by HPLC
Mol. Weight : 10.28 kDa
Storage : upon arrival, powder at –20°C; solution at –80°C. Please avoid multiple freeze/thaw cycles.

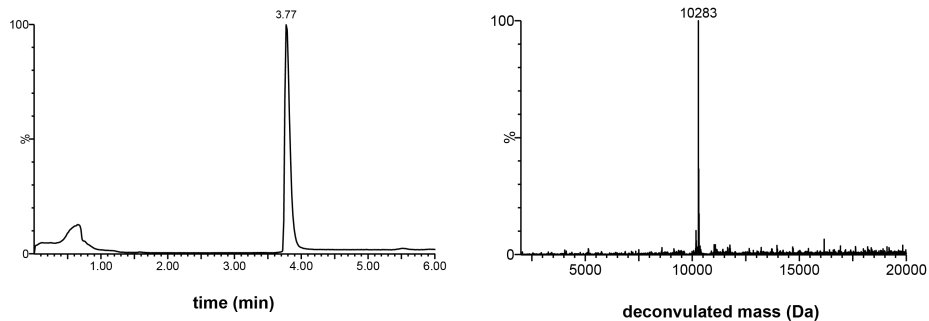
Productsheet

Background. UbiQ-184 is an *N*-terminal biotinylated H2B(113-125) peptide which is monoubiquitinated at K120 via a native isopeptide bond. An aminohexanoic acid (Ahx) linker is used to create extra space between the biotin and H2B peptide for efficient access of biotin binding entities. This product is formed by chemical ligation.¹

sequence

EGTKAVTK(Ub)YTSSK

Ub = MQIFVKLTITGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRGG



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. XSelect CSH C18 (4.6×100 mm, 5 μM); flow rate= 0.8 mL/min, runtime = 6 min, column T= 40°C. Gradient: 30%⇒60% over 5.5 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 (e.g. 50 mM HEPES pH 8, 100 mM NaCl)

Literature. (1) El Oualid et al. *Angewandte Chemie Int. Ed.* **2010**, *49*, 10149.