

K119 Ub-H2AX(115-143)-FP

UbiQ code : UbiQ-038
Batch # : B09082012-001

Protocol# : P09082012-001

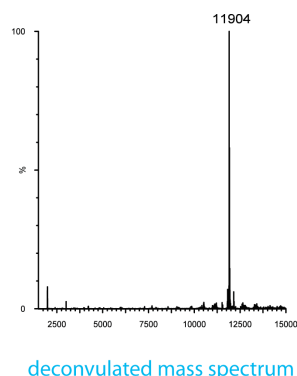
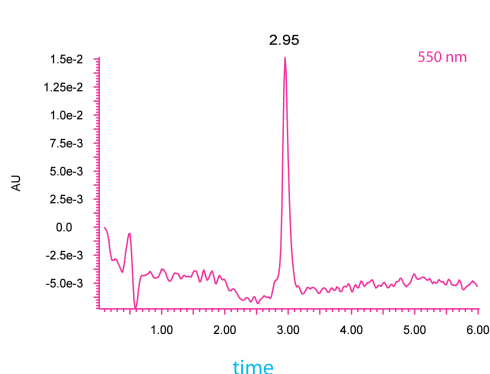
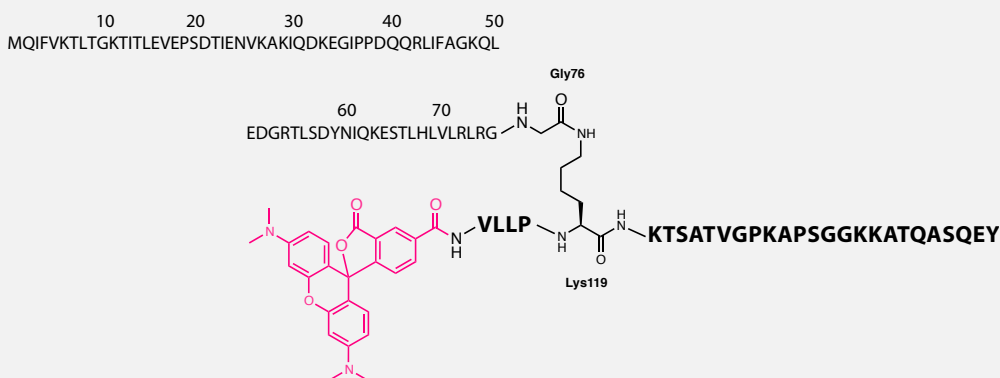
Product Information

Amount : 0.08 mg lyophilized powder
Purity : $\geq 95\%$ by RP-HPLC
Mol. Weight : 11904 Da by MS (cal 11907 Da)
Storage : -20°C ; buffered solution at -80°C . Please avoid multiple freeze/thaw cycles.

Background. Class II fluorescence polarization HTS reagent¹⁻⁴ based on the peptide sequence 115 – 143 of the histone protein H2A-X, which is monoubiquitinated on Lys119. The peptide is modified on the N-terminus with a 5-carboxytetramethylrhodamine and conjugated at Lys119 to Ub via a native isopeptide bond.

Important: sample preparation. Dissolve the powder in as little DMSO as possible (e.g. 11.9 mg/mL = 1000 μM) and add this DMSO stock to the required buffer (please note the order of addition).

Structure (5-TAMRA)-VLLPK¹¹⁹(Ub)KTSATVGPKAPSGGKKATQASQEY



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 \times 50 mm, 2.6 μm); flow rate = 0.5 mL/min, runtime = 6 min, column T = 40°C . Gradient: 5% \Rightarrow 95% over 3.5 min.

Literature.

- (1) Tirat, A. et al. *Anal. Biochem.* **2005**, 343, 244-255. (2) Huang et al. *Methods in Molecular Biology* **2009**, 565, 127.
- (3) Levine et al. *Anal. Biochem.* **1997**, 247, 83. (4) Geurink and El Oualid et al. *ChemBiochem*, **2012**, 13, 293.

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09 Augustus 2012

Amsterdam, The Netherlands