Supplementary Material

Chemical synthesis of palmitoylated histone H4

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Trial synthetic routes of segment **2** S2

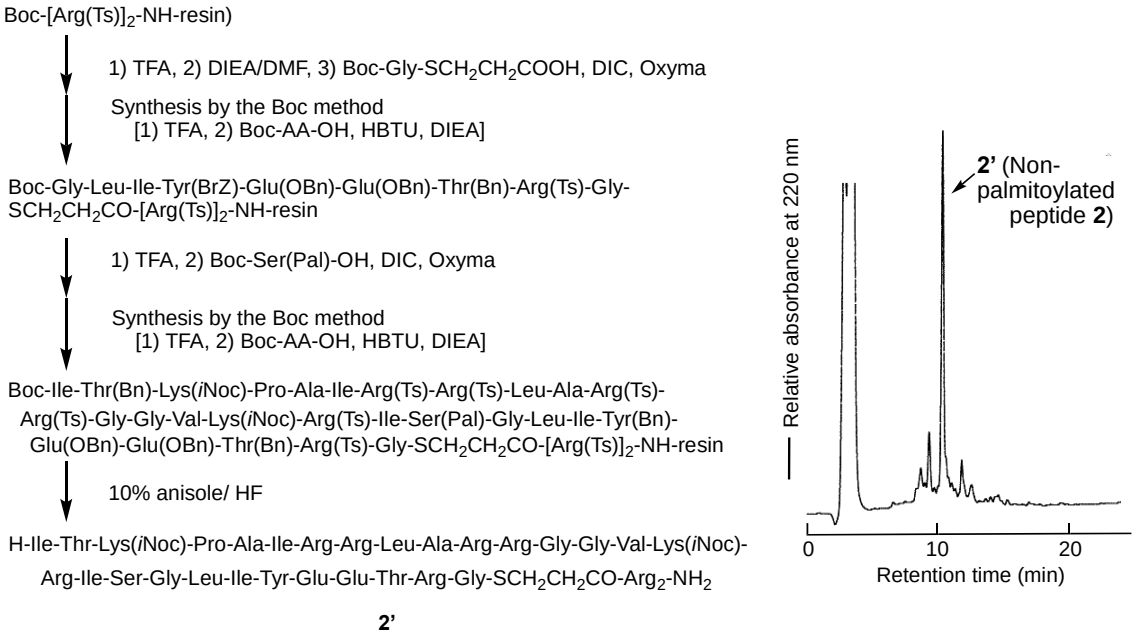

Fig. S1. Trial synthesis of segment **2** by the Boc method. Elution conditions: column, Cosmosil 5C18 AR-II (4.6 x 150 mm, Nacalai Tesque, Kyoto) at the flow rate of 1 mL min-1; eluent, A, 0.1% TFA, B, acetonitrile containing 0.1% TFA; temperature, 50 ºC; gradient, 20% B at 0 min to 40% B at 20 min linearly.

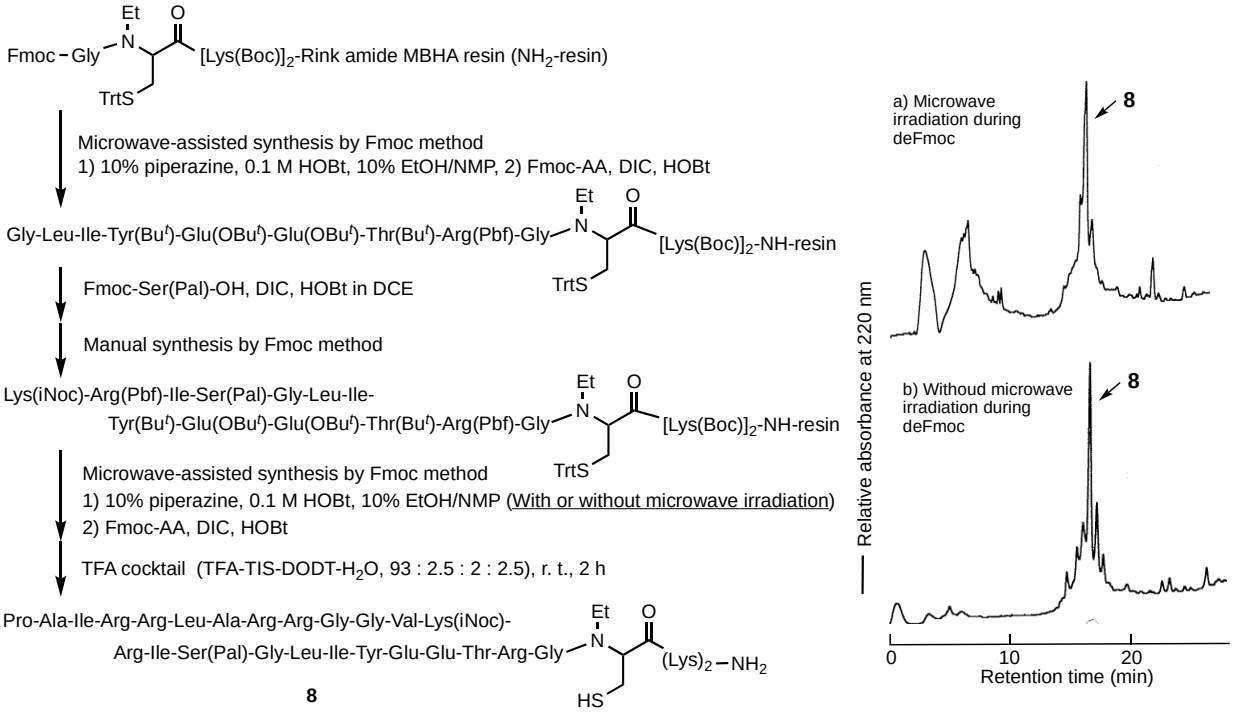

Fig. S2. Trial synthesis of the partial sequence (32-56) of segment **2** by the Fmoc-method. The introdution of Ile^{29} to Lys^{31} was abondoned. The HPLC profile a) shows the analysis of crude peptide obtained with microwave irradiation during Fmoc group removal for Pro^{32} to Lys^{44}. Profile b) shows the analysis of crude peptide obtained without microwave irradiation during Fmoc group removal for Pro^{32} to Lys^{44}. Elution conditions: column, Cosmosil 5C18 AR-II (4.6 x 150 mm, Nacalai Tesque, Kyoto) at the flow rate of 1 mL min^{-1}; eluent, A, 0.1% TFA, B, acetonitrile containing 0.1% TFA; temperature, 50 ºC; gradient, 20% B at 0 min to 60% B at 20 min linearly.

