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Supporting Information

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for

Water-Soluble "Click Peptide" by Using the *O*-Acyl Isopeptide Method: Controlled Production of Alzheimer's Amyloid β Peptide from Photo-Triggered Precursor Peptide

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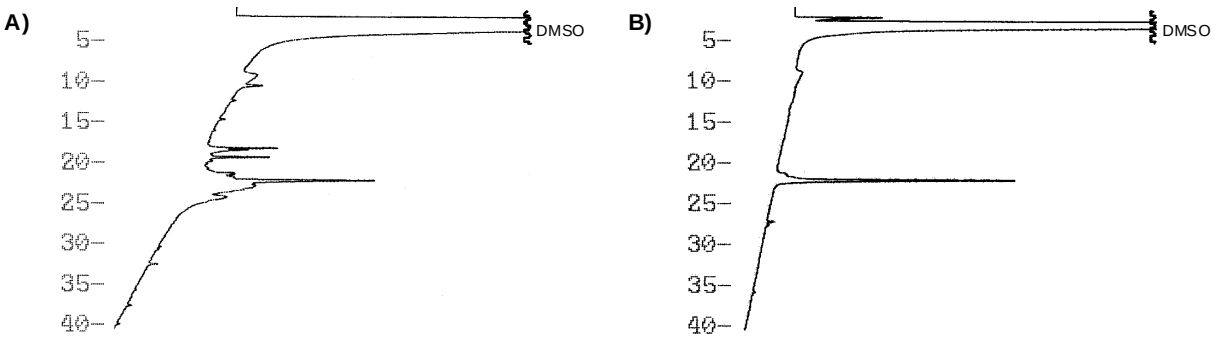

Figure S1. HPLC profiles of A) crude and B) pure 26-Mapoc-AIAβ42 (photo-click peptide **4**). Analytical HPLC was performed using a C18 reverse phase column (4.6 × 150 mm; YMC Pack ODS AM302) with binary solvent system: a linear gradient of CH_3CN (0–100% CH_3CN, 40 min) in 0.1% aqueous TFA at a flow rate of 0.9 mL min^{-1} (40 °C), detected at 230 nm.

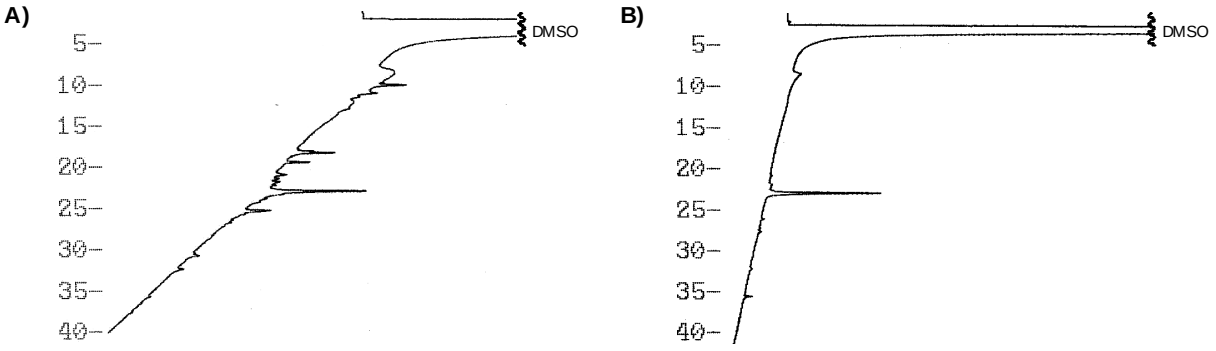

Figure S2. HPLC profiles of A) crude and B) pure 26-DEACMoc-AIAβ42 (photo-click peptide **5**). Analytical HPLC was performed using a C18 reverse phase column (4.6 × 150 mm; YMC Pack ODS AM302) with binary solvent system: a linear gradient of CH_3CN (0–100% CH_3CN, 40 min) in 0.1% aqueous TFA at a flow rate of 0.9 mL min^{-1} (40 °C), detected at 230 nm.

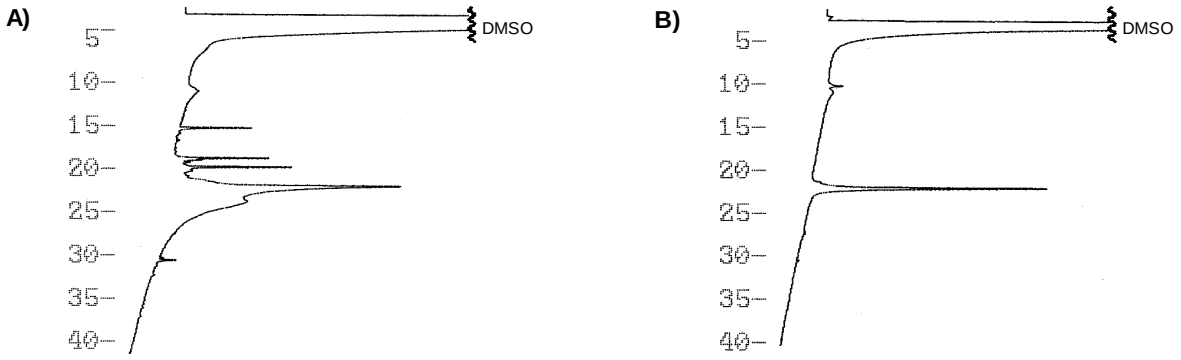

Figure S3. HPLC profiles of A) crude and B) pure 26-ACMoc-AIAβ42 (photo-click peptide **6**). Analytical HPLC was performed using a C18 reverse phase column (4.6 × 150 mm; YMC Pack ODS AM302) with binary solvent system: a linear gradient of CH_3CN (0–100% CH_3CN, 40 min) in 0.1% aqueous TFA at a flow rate of 0.9 mL min^{-1} (40 °C), detected at 230 nm.

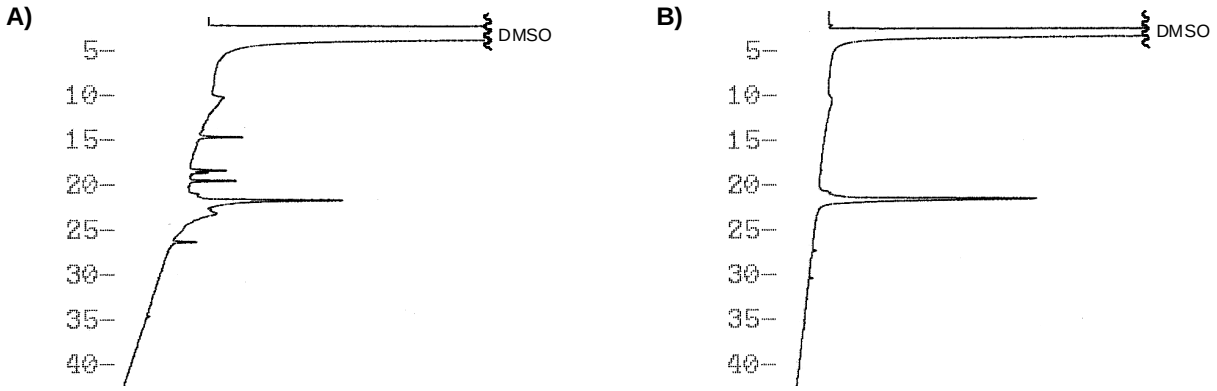

Figure S4. HPLC profiles of A) crude and B) pure 26-BCMACMoc-AIAβ42 (photo-click peptide **7**). Analytical HPLC was performed using a C18 reverse phase column (4.6 × 150 mm; YMC Pack ODS AM302) with binary solvent system: a linear gradient of CH_3CN (0–100% CH_3CN, 40 min) in 0.1% aqueous TFA at a flow rate of 0.9 mL min^{-1} (40 °C), detected at 230 nm.