Supplementary Information

Diselenide metathesis in selenocysteine-substituted biologically active peptides

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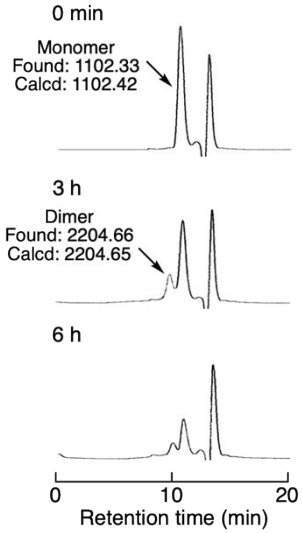

Fig. S1. Elution profiles of size-exclusion chromatography of Se-oxytocin at the concentration of 2 mM. Elution conditions: column, G2500PW$_{XL}$ (10 mm x 300 mm, calibration range < 3000 Da, Tosoh, Tokyo) at the flow rate of 0.70 mL/min; temperature, 50 ˚C; eluent, 50% acetonitrile aq. containing 0.1% TFA.

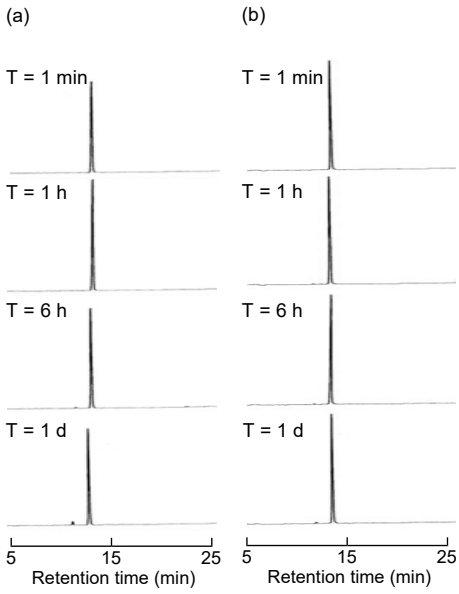

Fig. S2. Stability of native conotoxin at the concentration of (a) 2 mM and (b) 10 μM. Elution conditions: column, Mightysil RP-18 GPII (4.6 × 150 mm, Kanto Chemical Co., Inc., Tokyo), eluent, A, 0.1% TFA, B, acetonitrile containing 0.1% TFA. A linear gradient starting from 10% at 0 min to 35% at 25 min.

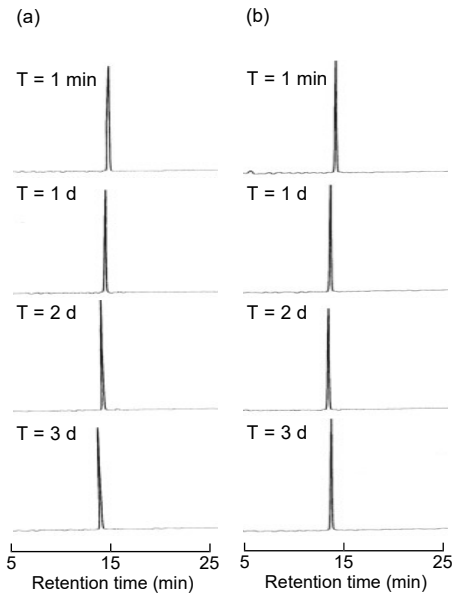

Fig. S3. Stability of native apamin at the concentration of (a) 2 mM and (b) 10 μM. Elution conditions: column, Mightysil RP-18 GPII (4.6 × 150 mm, Kanto Chemical Co., Inc., Tokyo), eluent, A, 0.1% TFA, B, acetonitrile containing 0.1% TFA. A linear gradient starting from 5% at 0 min to 30% at 25 min was applied.