

Supporting Information

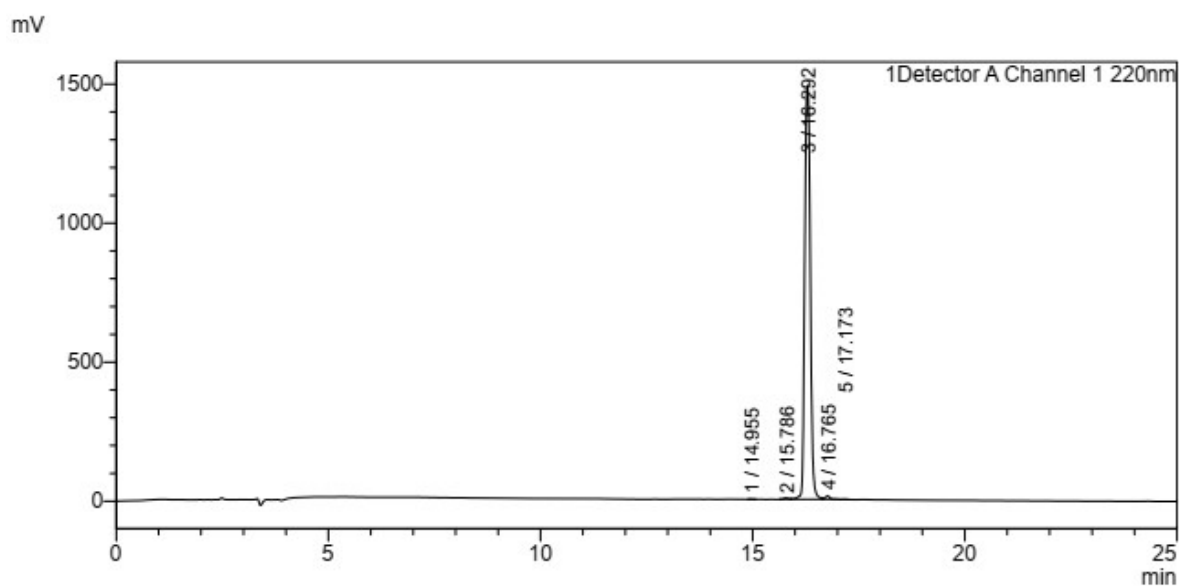


Figure S1. HPLC of the purified (P)GKY20 peptide provided by Genscript (Germany).

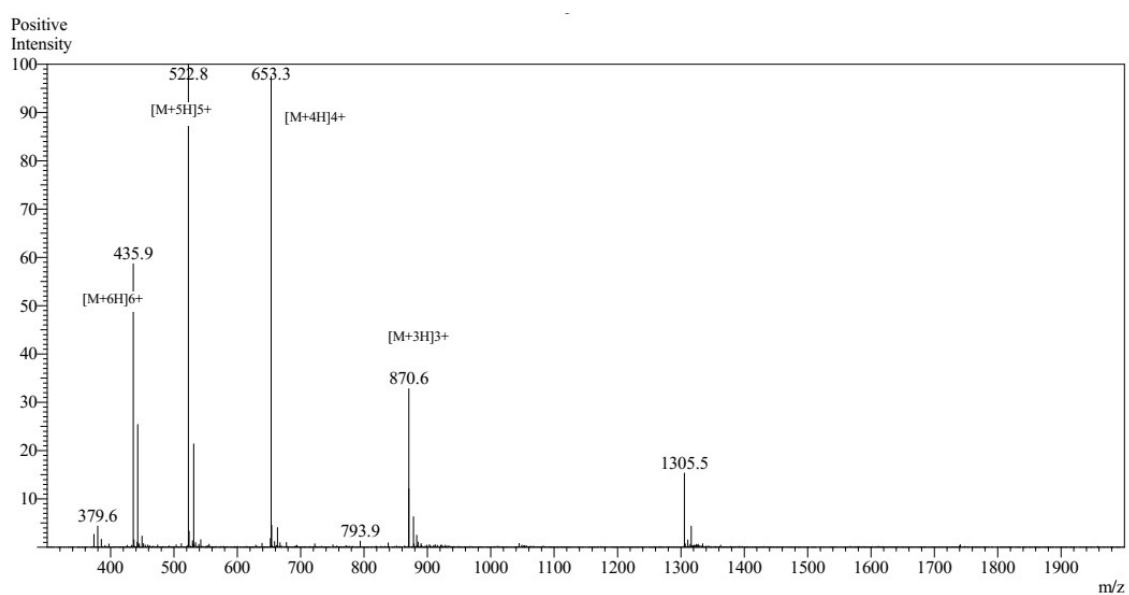


Figure S2. Mass spectrum (MS) of the purified (P)GKY20 peptide provided by Genscript (Germany). The value of the obtained mass is 2069.00 g mol⁻¹ (the theoretical one is 2069.13 g mol⁻¹).

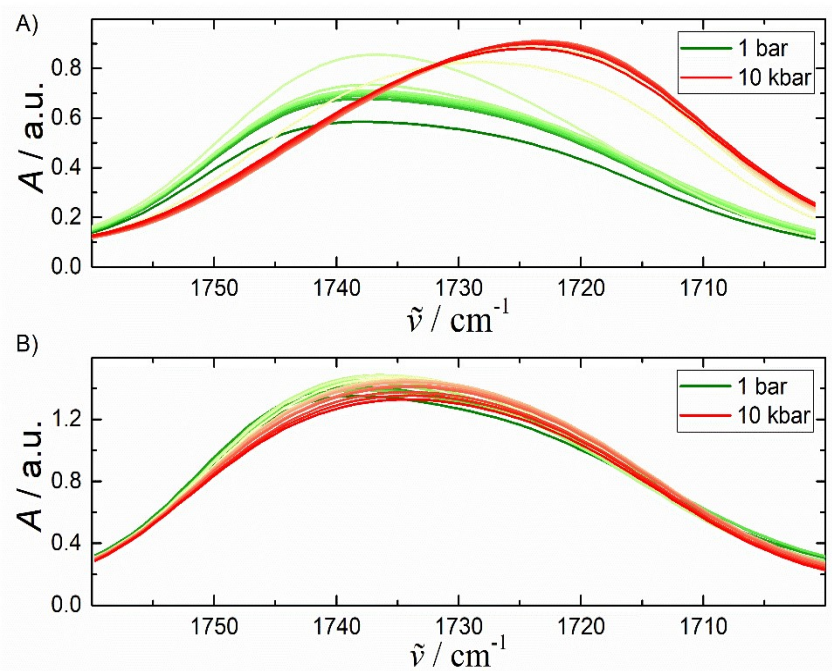


Figure S3. Pressure-dependent FT-IR spectra of the stretching band of the carbonyl (C=O) groups of DOPE:DOPG (80:20) vesicles in the absence (panel A) and in the presence (B) of (P)GKY20 peptide at the lipid-to-peptide ratio 50:1 ($T = 25\text{ }^{\circ}\text{C}$).

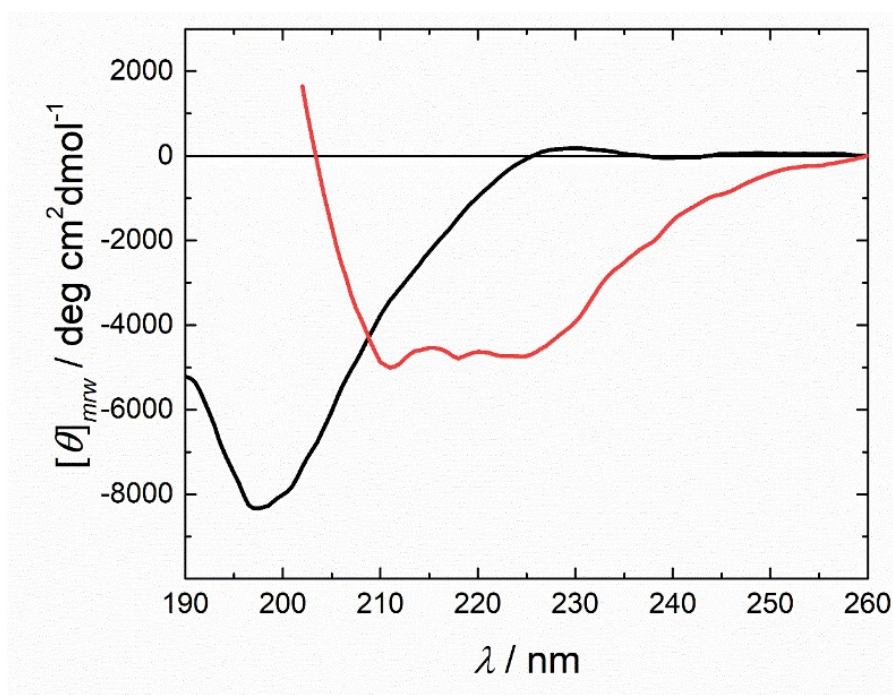


Figure S4. Circular dichroism spectra of (P)GKY20 peptide at the concentration of $50\text{ }\mu\text{M}$ in neat buffer (black line) and in the presence of 2.5 mM DOPE:DOPG large unilamellar vesicles (red line). The spectra were acquired by using a 0.1 cm path length quartz cuvette at the temperature of $25\text{ }^{\circ}\text{C}$. Buffer: 20 mM sodium phosphate, pH 7.4.