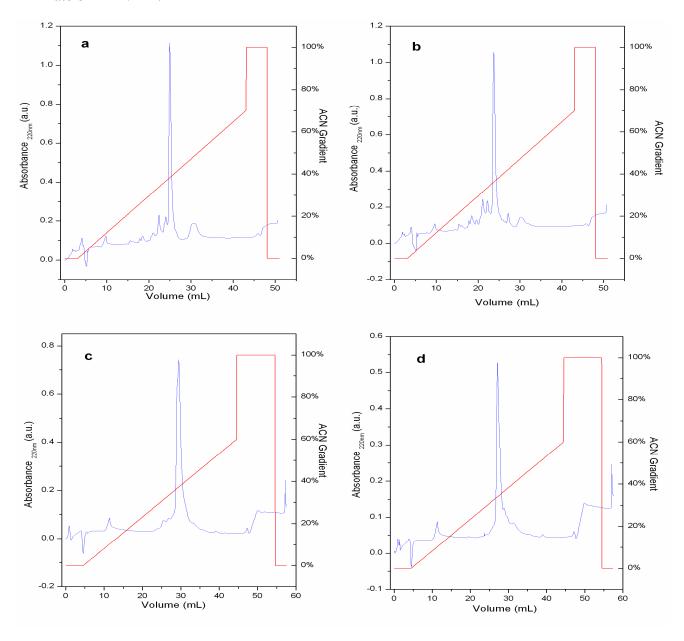
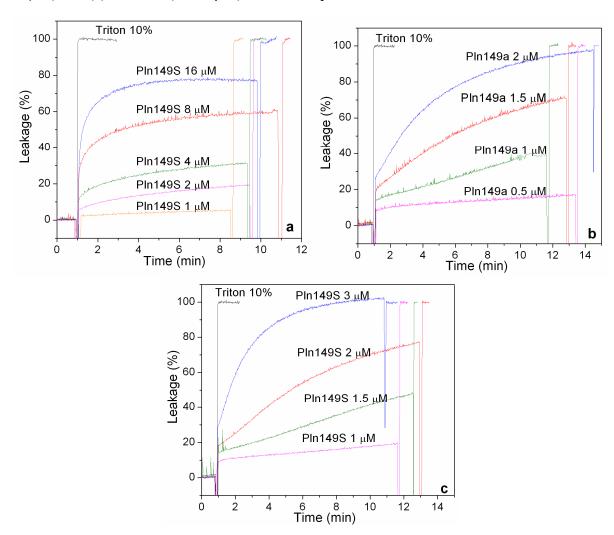
## **Supplementary Information**

**Figure S1.** Reverse Phase Chromatography of the four analog peptides (a) Pln149a; (b) Pln149S; (c) Pln149W; (d) Pln149SW. Column was equilibrated with  $H_2O$  (TFA 0.1%) and eluted in a gradient of acetonitrile 90% (TFA 0.1%) in 40 min (dotted curves), flow rate of 1 mL/min.



**Figure S2.** Leakage assays of Pln149a and Pln149S. (a) The internal content of DPPG was released by the action of Pln149S (1 to 16  $\mu$ M). Leakage action of (b) Pln149a (0.5 to 2  $\mu$ M) and (c) Pln149S (1 to 3  $\mu$ M) on POPG liposomes.



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