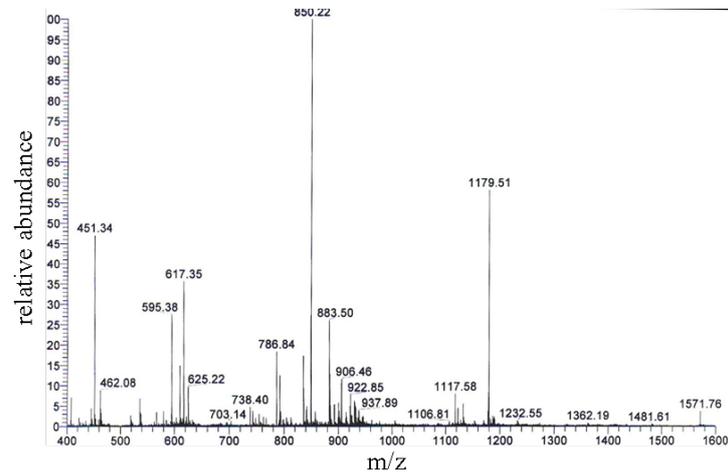


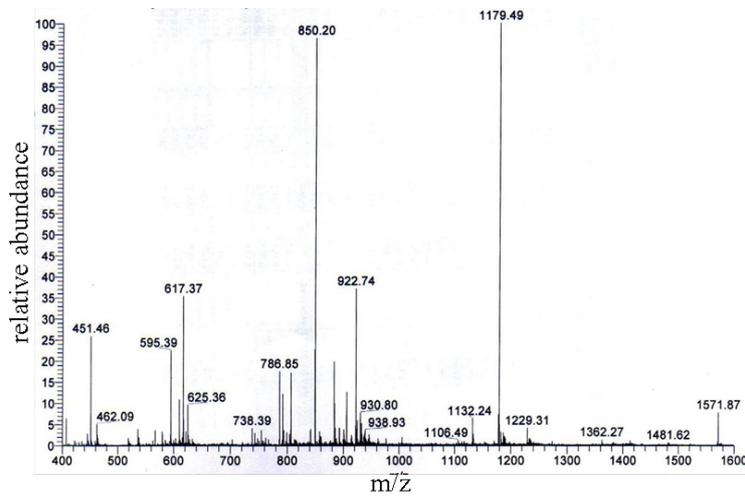


**Supplemental Figure 2.** Mass spectra of the protein in P3 (A) and P5 (B) fractions derived from ion exchange chromatographic separation of the holovenom of *N. kaouthia*. The P3 and P3 were identified by LC-MS/MS as phospholipase A2.

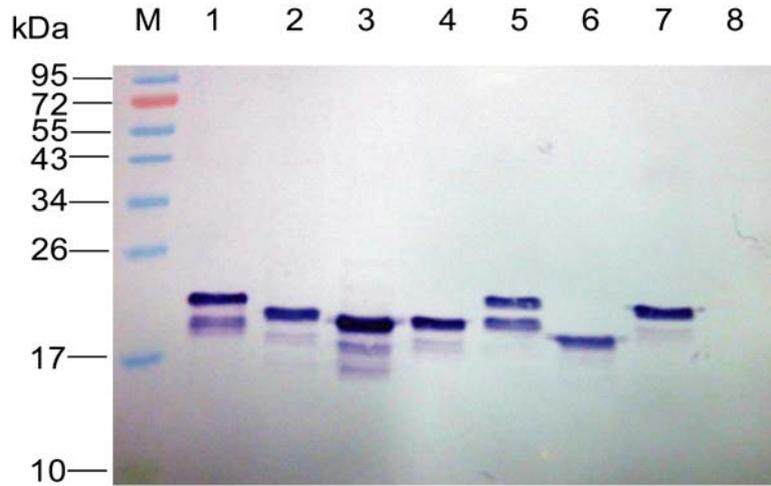
A



B

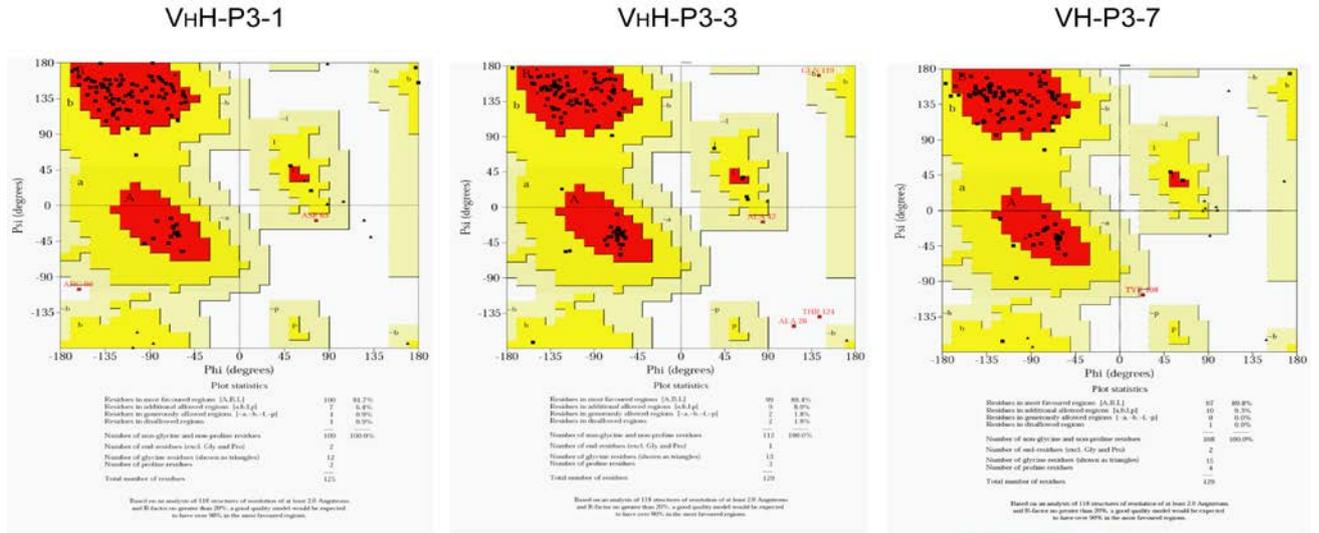


**Supplemental Figure 3.** Patterns of humanized-VH/V<sub>H</sub>H in SDS-PAGE separated lysates of representative *vh/v<sub>h</sub>h*-phagemid transformed *E. coli* clones. Lane M, Standard protein markers. Lanes 1-7, SDS-PAGE separated lysates of 7 transformed *E. coli* clones; the VH/V<sub>H</sub>H appeared in most lanes as a protein doublet which the lower band was mature VH/V<sub>H</sub>H while the upper band was the protein with signal peptide. The lowest band in lane 3 is degraded product of the principal protein. Lane 8, SDS-PAGE separated lysate of normal *E. coli* (negative VH/V<sub>H</sub>H control). Numbers at the left are protein sizes in kDa.



**Supplemental Figure 4.** Ramachandran plots of modeled structures of VH/V<sub>H</sub>H (A) and PLA<sub>2</sub> (B).

A



B

