Supplementary Materials: Mitochondria and Lysosomes Participate in Vip3Aa-Induced Spodoptera frugiperda Sf9 Cell Apoptosis

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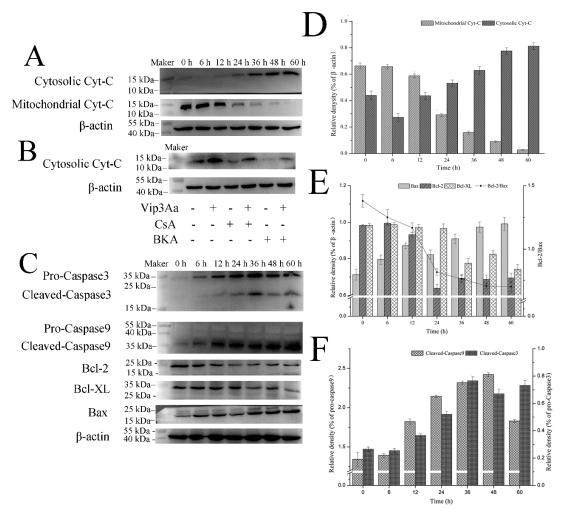


Figure S1. Impacts of Vip3Aa in Sf9 cells on the cytochrome c distribution and the level of mitochondria-associated proteins. (**A**) Cytochrome c distribution in mitochondria and cytosol was detected by Western blotting. (**B**) Cytochrome c distribution in Sf9 cells after various treatments. CsA (5 μ M) or BKA (10 μ M) was pretreated the Sf9 cells for 2 h before adding Vip3Aa. (**C**) Mitochondria-associated protein levels in Sf9 cells were tested using Western blotting. (**D**, **E**, and **F**) Densitometry analysis of (**A**) and (**C**).

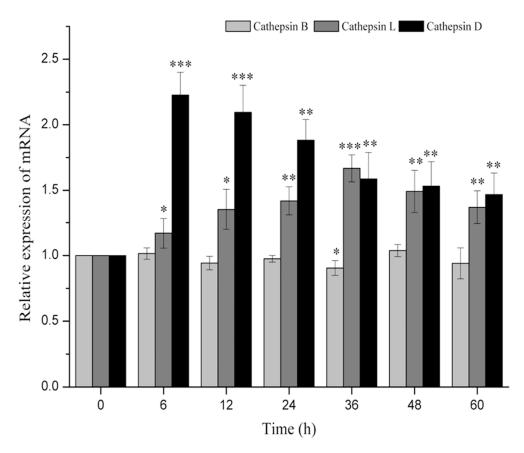


Figure S2. Effect of Vip3Aa on cathepsins mRNA level in Sf9 cells at different time.

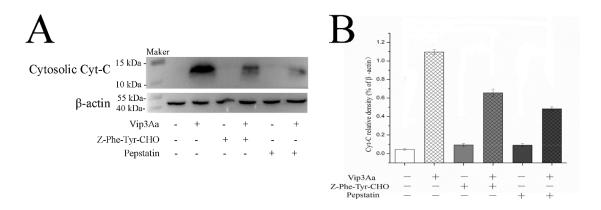


Figure S3. Effects of cathepsin (L and D) inhibitors on cytochrome c distribution. (**A**) cytochrome c distribution in cytosol was detected by Western blotting. (**B**) Densitometry analysis of (**A**).

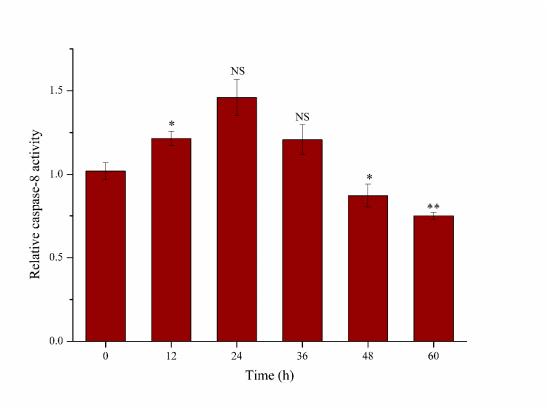


Figure S4. Effects of Vip3Aa on caspase-8 activity. Significant tests from the corresponding controls (without Vip3Aa treatment) are indicated by NS, not significant, *p < 0.05, **p < 0.01, ***p < 0.001.

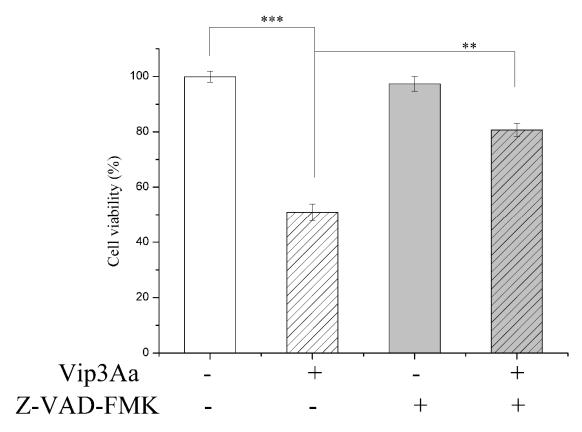


Figure S5. Effects of caspase-3 inhibitor on Sf9 cell viability. Significant tests from the corresponding controls (without Vip3Aa treatment) are indicated by *p < 0.05, **p < 0.01, ***p < 0.001.

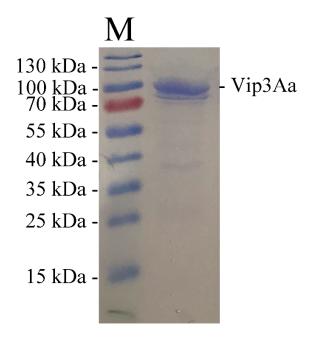


Figure S6. Result of purified Vip3Aa detected by SDS-PAGE electrophoresis analysis. M, protein maker 26619.