

Supplementary Materials: A Novel ShK-Like Toxic Peptide from the Transcriptome of the Cnidarian *Palythoa caribaeorum* Displays Neuroprotection and Cardioprotection in Zebrafish

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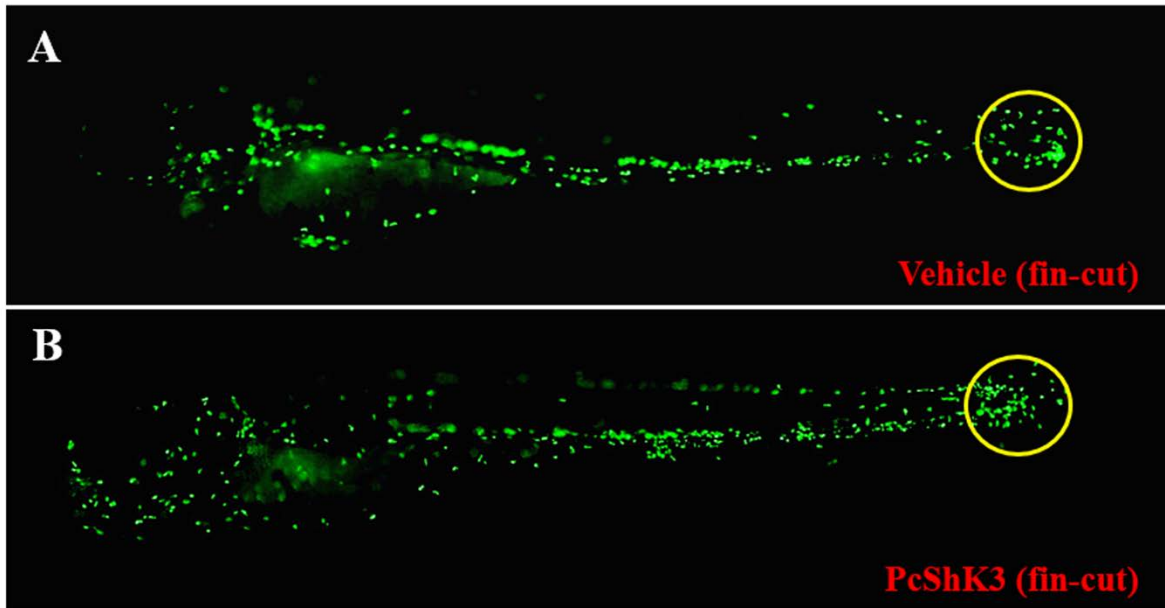


Figure S1. Immunomodulation response assessment of *Tg(mpo:GFP)* zebrafish larvae after PcShK3 treatment. **(A)** Neutrophils (*mpo*⁺) accumulated within the fin-cut region; **(B)** No significant changes of neutrophils accumulation could be observed after PcShK3 treatment.

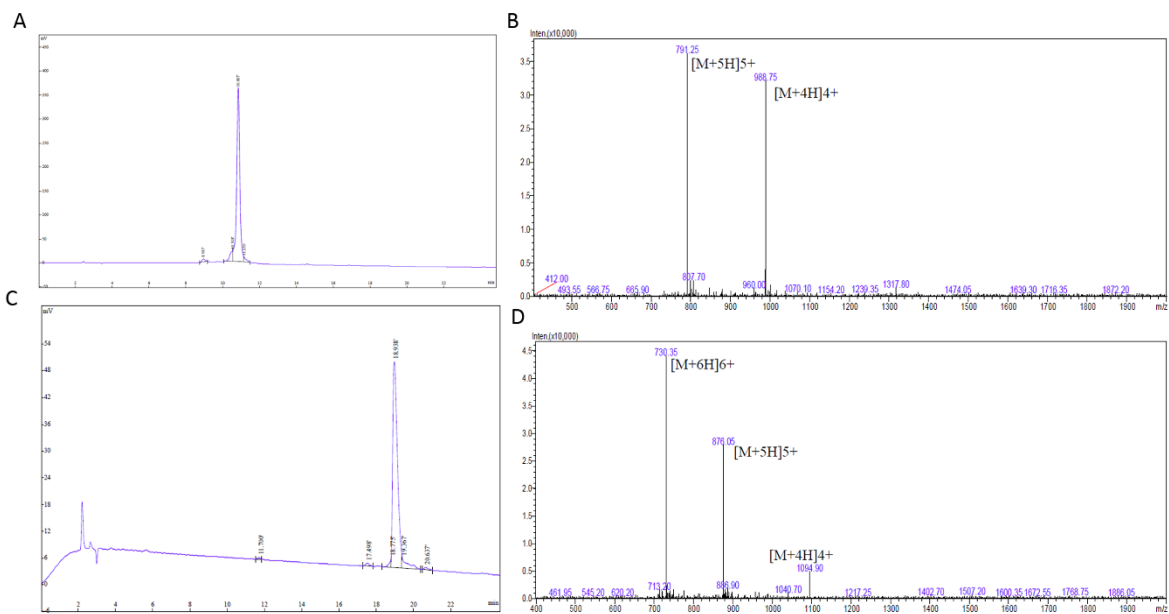


Figure S2. Purification and characterization of the peptides. **(A)** Analytical RP-HPLC chromatograph for the final purified linear PcShK3 peptide with absorbance at 220 nm with purity $\geq 90\%$. **(B)** ESI-MS analysis of linear PcShK3 peptide. The multicharged ions are deconvoluted to a molecular mass of 3951.45 Da. **(C)** Analytical RP-HPLC chromatograph for the final purified rhodamine B conjugated PcShK3 peptide with absorbance at 220 nm with purity $\geq 90\%$. **(D)** ESI-MS analysis of rhodamine B conjugated PcShK3 peptide. The multicharged ions are deconvoluted to a molecular mass of 4376.03 Da.