

Supporting Information

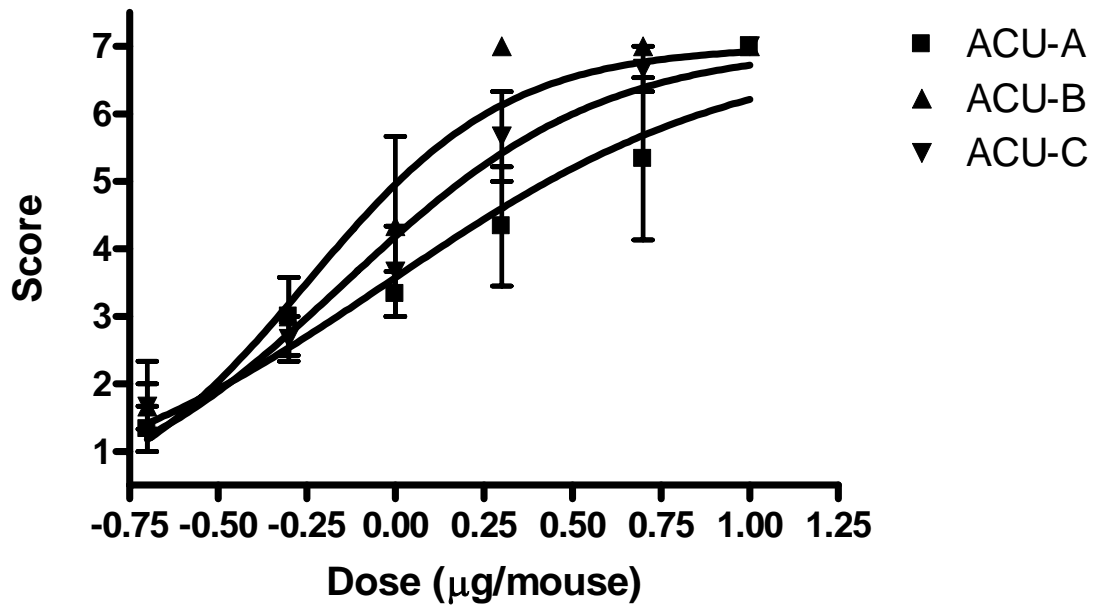
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Isolation, Amino Acid Sequence and Biological Activities of Novel Long-Chain Polyamine-Associated Peptide Toxins from the Sponge *Axinyssa aculeata*

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Figure S1. Dose-response curve of ACUs for mice upon i.c.v. injection



	ACU-A	ACU-B	ACU-C
EC50	0.9533	0.5639	0.7216

	ACU-A	ACU-B	ACU-C
EC50	0.5956 to 1.526	0.3992 to 0.7964	0.5518 to 0.9436

Figure S2. ^1H NMR spectrum for ACU-A in D_2O (750 MHz)

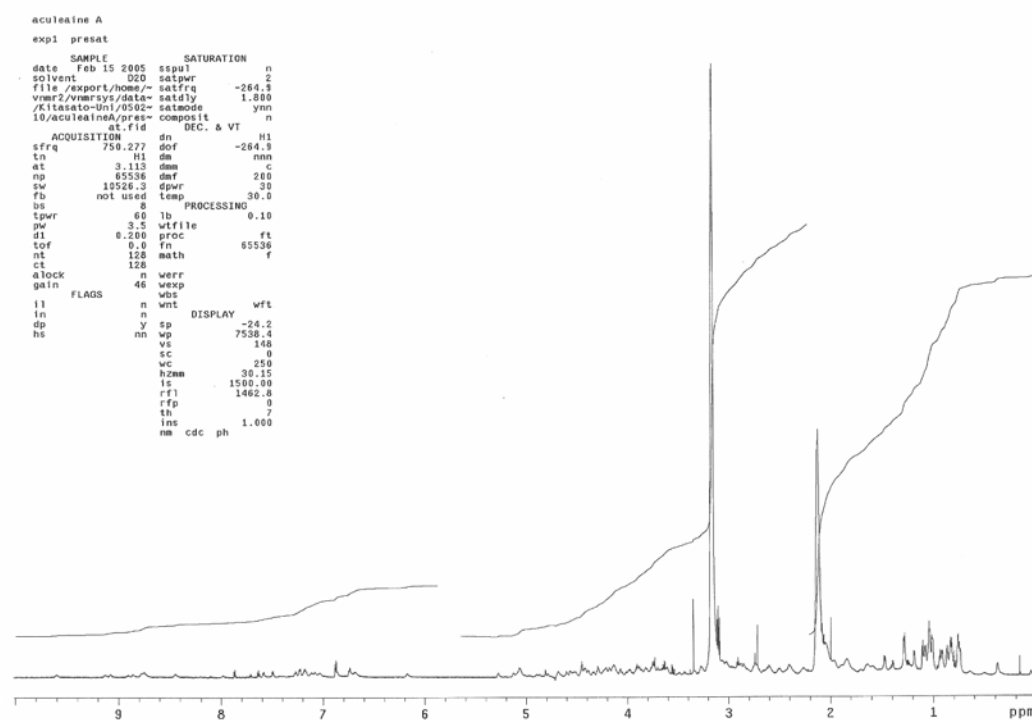


Figure S3. ^1H NMR spectrum for ACU-B in D_2O (750 MHz)

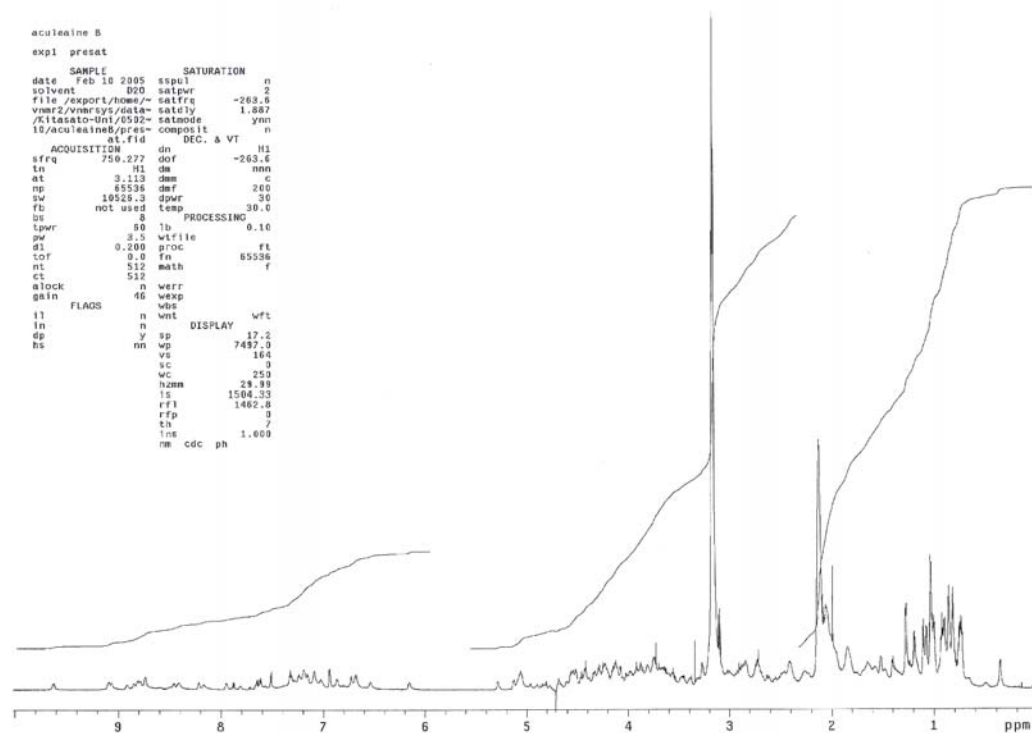


Figure S4. MALDI-TOF MS/MS spectrum for fragment A (ACU-A) and A' (ACU-B)
precursor ion: m/z 1126

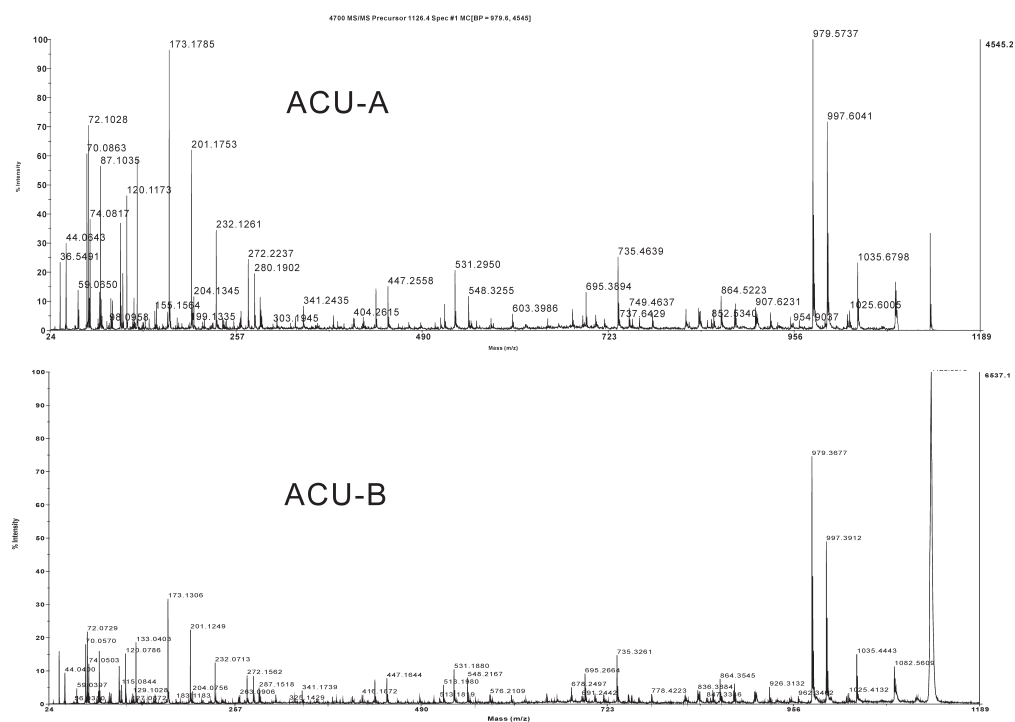


Figure S5. MALDI-TOF MS/MS spectrum for fragment B (ACU-A) and B' (ACU-B)
precursor ion: m/z 1368

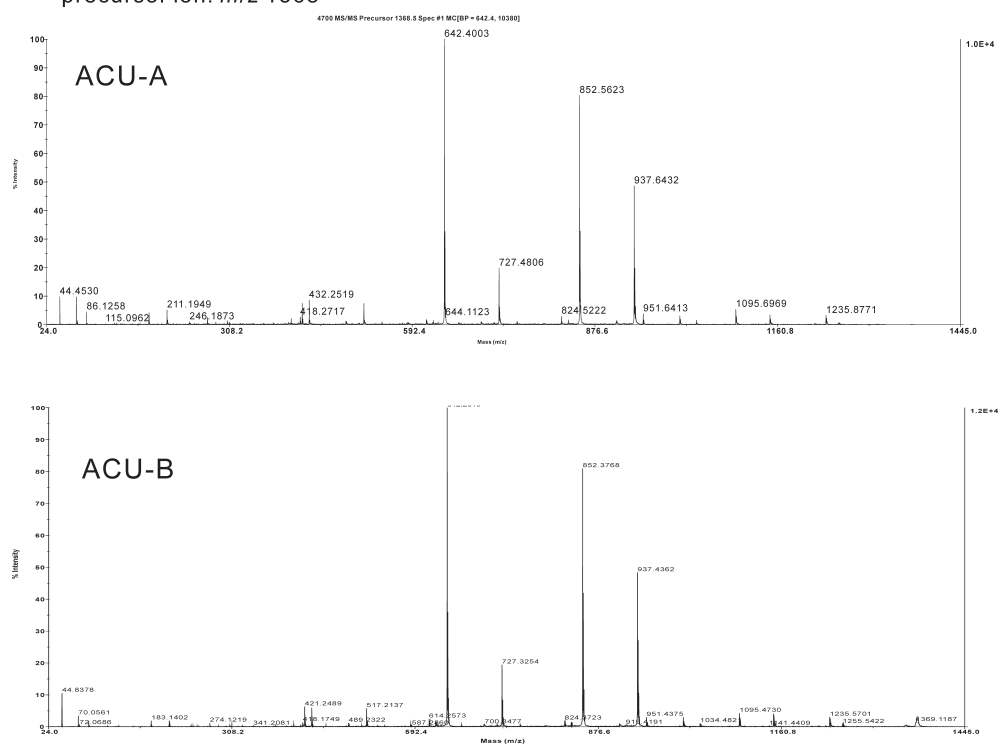


Figure S6. MALDI-TOF MS/MS spectrum for fragment C (ACU-A) and C' (ACU-B)

precursor ion: m/z 2102

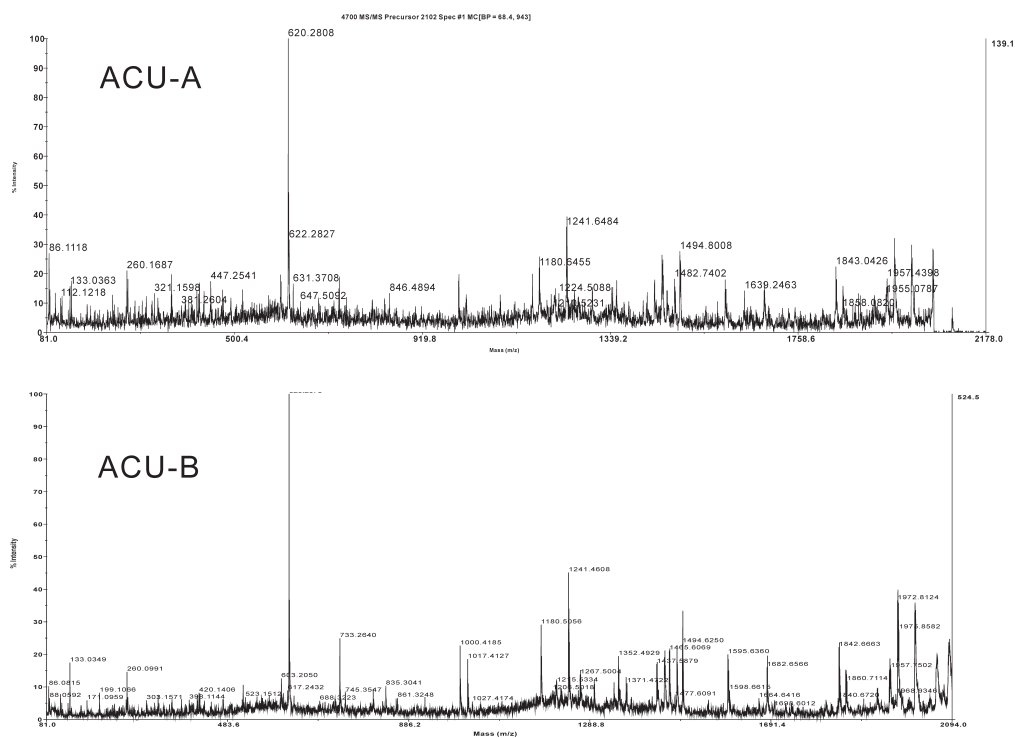


Figure S7. MALDI-TOF MS/MS spectrum for fragment D

precursor ion: m/z 1021

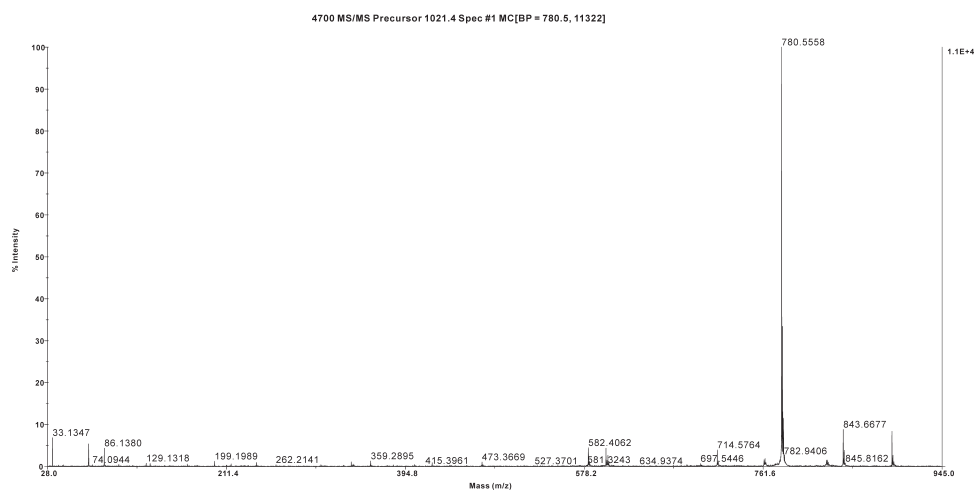


Figure S8. ^1H NMR spectrum for fragment E in D_2O (600 MHz)

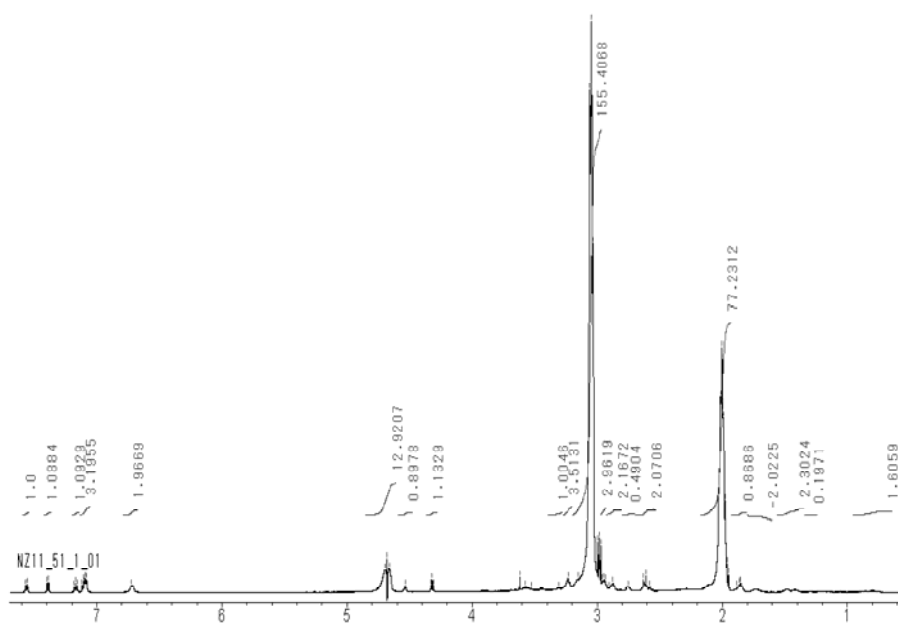


Figure S9. COSY spectrum for fragment E in D_2O (600 MHz)

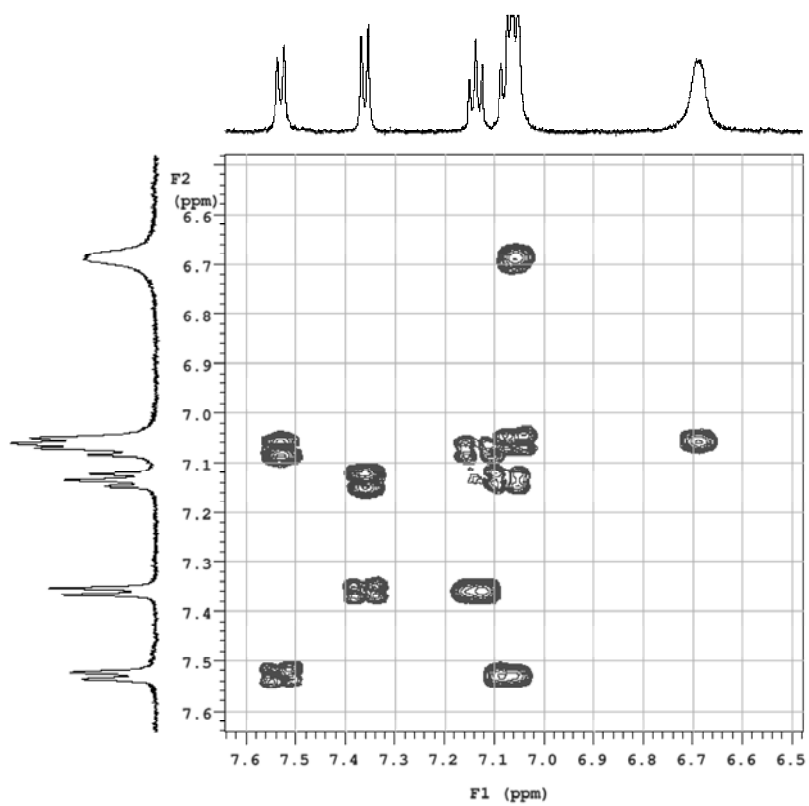


Figure S10. Membrane permeabilizing activity of ACU-A

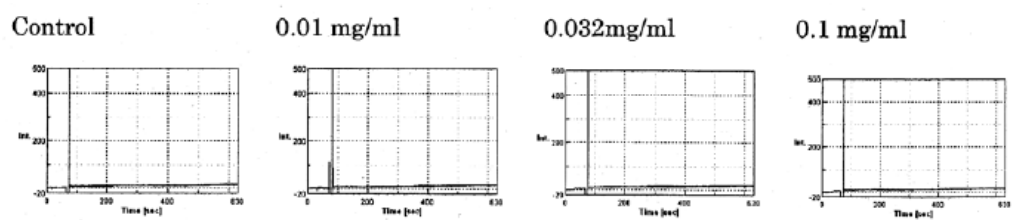


Figure S11. Negative ion MALDI-TOFMS data (Lower molecular region) for ACU-A, B, and LCPA showing presences of sulfate ion at m/z 96.96

