

Supplementary Materials: Examination of the Efficacy and Cross-Reactivity of a Novel Polyclonal Antibody Targeting the Disintegrin Domain in SVMPs to Neutralize Snake Venom

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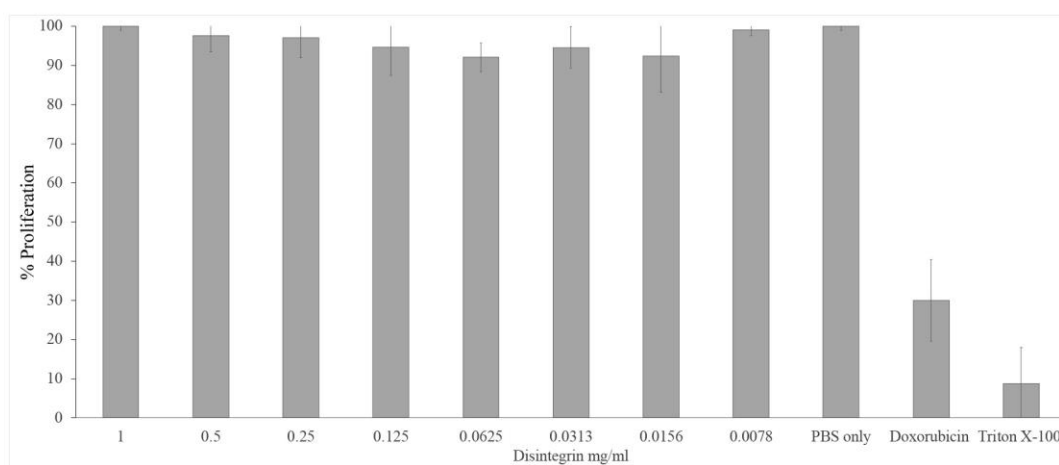


Figure S1. Cell proliferation assay.

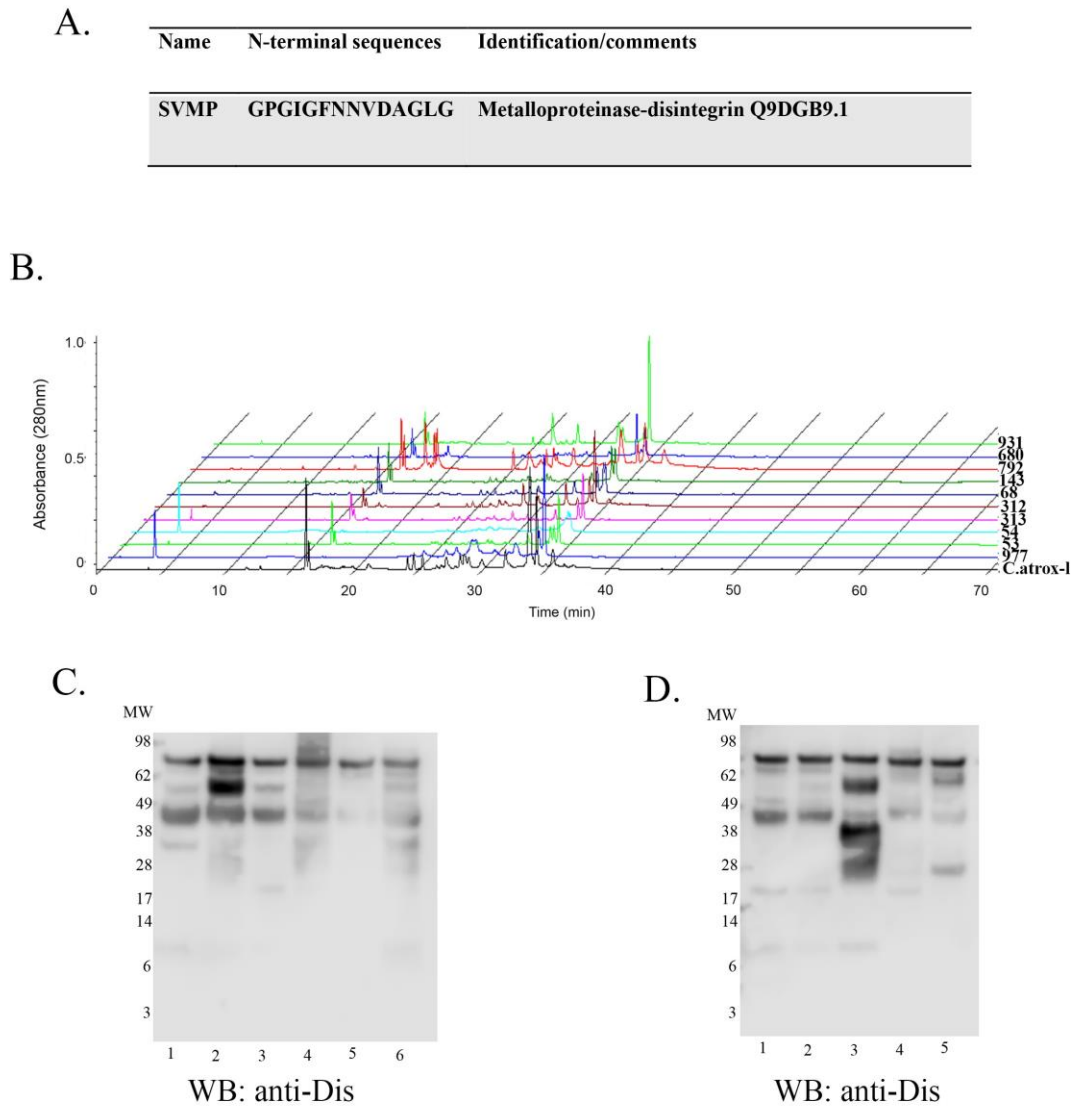


Figure S2. (A) N-terminal sequence of SVMP from *C. o. helleri*. The identity of the primary sequence was determined using Basic Local Alignment Search Tool (BLAST <http://blast.ncbi.nlm.nih.gov/Blast.cgi>). (B) HPLC profiles of crude venoms. A total of 500 µg was injected into a Reverse Phase C18 column as described in the Materials and Methods. (C) Western Blot of crude venoms probed with anti-disintegrin. Five micograms of crude venom was separated on SDS-PAGE and were transferred to an Immobilon® membrane (Millipore) using BioRad Trans-Blot SD Semi-Dry Transfer Cell at 100 V for 1 h and then leftover night. M: Seeblue® Plus 2 prestained standard (1X), lanes 1: *C. atrox* (Luke), Lane 2: *C. atrox* (977), Lane 3: *C. atrox* (53), Lane 4: *C. atrox* (54), Lane 5: *C. atrox* (313), Lane 6: *C. atrox* (312). (D) Western Blot crude venoms probed with anti-disintegrin M: Seeblue® Plus 2 prestained standard (1X), lanes 1: *C. atrox* (68), Lane 2: *C. atrox* (143), Lane 3: *C. helleri* (792), Lane 4: *C. helleri* (680), Lane 5: *C. s. scutulatus* (931).

A.



B.

Species	Vial #	Location	MGD (mg/mL)	Neutralized
<i>C. atrox</i>	Luke	Kleberg Co, TX	0.5	+
<i>C. atrox</i>	977	Kleberg Co, TX	2	+
<i>C. atrox</i>	53	San Patricio Co, TX	0.5	+
<i>C. atrox</i>	54	San Patricio Co, TX	1	+
<i>C. atrox</i>	313	Pima Co, AZ	0.25	+
<i>C. atrox</i>	312	Tucson Co, AZ	0.25	+
<i>C. atrox</i>	68	La Salle/ Dimmit Co, TX	0.25	+
<i>C. atrox</i>	143	Culberson Co, TX	0.125	+
<i>C. o. helleri</i>	792	NNTRC Serpentarium	2	+
<i>C. o. helleri</i>	680	San Bernadino, Co. CA	0.125	+
<i>C. s. scutulatus</i>	931	Pima, Co. AZ	0.5	+

Figure S3. (A) Sequence alignment of *C. atrox* SVMP PII. The alignment was generated with the ClustalW2 multiple sequence alignment program (<https://www.ebi.ac.uk/Tools/msa/clustalw2/>). (B) Table of Snake, identification, location and MGD of venom tested using anti-disintegrin.