

Accepted Manuscript

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PII: S0141-8130(17)32256-0
DOI: <http://dx.doi.org/doi:10.1016/j.ijbiomac.2017.08.006>
Reference: BIOMAC 7998

To appear in: *International Journal of Biological Macromolecules*

Received date: 21-6-2017
Revised date: 29-7-2017
Accepted date: 1-8-2017

Please cite this article as: Manisha Choudhury, Kanve Nagaraj Suvilesh, Bannikuppe Sannanayak Vishwanath, Devadasan Velmurugan, EC-PIII, a novel non-hemorrhagic procoagulant metalloproteinase: Purification and characterization from Indian *Echis carinatus* venom, *International Journal of Biological Macromolecules* <http://dx.doi.org/10.1016/j.ijbiomac.2017.08.006>

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EC-PIII, a novel non-hemorrhagic procoagulant metalloproteinase: Purification and characterization from Indian *Echis carinatus* venom

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Highlights

- EC-PIII, a PIII class procoagulant SVMP was purified from Indian *Echis carinatus* venom.
- EC-PIII has a molecular mass of 110 kDa and is a dimeric protein with two subunits ~60 kDa and ~40 kDa.
- PMF results showed high homology to putative conserved domains of PIII-SVMP family.
- Local toxicity studies showed EC-PIII to be non-hemorrhagic and non-myotoxic.

Abstract

Procoagulant snake venom toxins find extensive use as reagents in laboratory tests and diagnostic kits. In the present study we report a novel P-III class procoagulant SVMP, EC-PIII from *Echis carinatus* venom. EC-PIII was purified using a combination of gel-filtration and anion-exchange chromatography. It has a molecular mass of 110 kDa and is a dimeric protein as determined by SDS-PAGE. DLS results

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