

Imperatoxin A

Cat. No.:	HY-P3037
CAS No.:	172451-37-5
Molecular Formula:	C ₁₄₈ H ₂₅₄ N ₅₈ O ₄₅ S ₆
Molecular Weight:	3758.35
Sequence:	Gly-Asp-Cys-Leu-Pro-His-Leu-Lys-Arg-Cys-Lys-Ala-Asp-Asn-Asp-Cys-Cys-Gly-Lys-Lys-Cys-Lys-Arg-Arg-Gly-Thr-Asn-Ala-Glu-Lys-Arg-Cys-Arg (Disulfide bridge:Cys3-Cys17;Cys10-Cys21;Cys16-Cys32)
Sequence Shortening:	GDCLPHLRCKADNDCCGKKCKRRGTNAEKRCR (Disulfide bridge:Cys3-Cys17;Cys10-Cys21;Cys16-Cys32)
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Imperatoxin A, a peptide toxin derived from the venom of the African scorpion <i>Pandinus imperator</i> , activator of Ca ²⁺ -release channels/ryanodine receptors (RyRs)? enhances the influx of Ca ²⁺ from the sarcoplasmic reticulum into the cell ^[1] .
IC ₅₀ & Target	RyRs ^[1]

REFERENCES

[1]. Georgina B Gurrola, et al. Imperatoxin A, a Cell-Penetrating Peptide from Scorpion Venom, as a Probe of Ca²⁺-Release Channels/Ryanodine Receptors. *Pharmaceuticals (Basel)*. 2010 Apr 1;3(4):1093-1107.

Caution: Product has not been fully validated for medical applications. For research use only.

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