

Caloxin 2A1

Cat. No.:	HY-P3278
CAS No.:	350670-85-8
Molecular Formula:	C ₆₄ H ₉₁ N ₁₉ O ₂₂
Molecular Weight:	1478.52
Sequence Shortening:	VSNSNWPSFPSSGGG-NH2
Target:	Proton Pump
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Caloxin 2A1 is an extracellular plasma membrane Ca ²⁺ -ATPase (PMCA) peptide inhibitor. Caloxin 2A1 does not affect basal Mg ²⁺ -ATPase or Na ⁺ -K ⁺ -ATPase ^[1] .
In Vitro	Caloxin 2A1 inhibits Ca ²⁺ -Mg ²⁺ -ATPase in human erythrocyte leaky ghosts, but it does not affect basal Mg ²⁺ -ATPase or Na ⁺ -K ⁺ -ATPase in the ghosts or Ca ²⁺ -Mg ²⁺ -ATPase in the skeletal muscle sarcoplasmic reticulum. Caloxin 2A1 also inhibits Ca ²⁺ -dependent formation of the 140-kDa acid-stable acylphosphate ^[1] . Caloxin 2A1 increases airway smooth muscle cells (ASMCs) apoptosis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. J Chaudhary, et al. Caloxin: a novel plasma membrane Ca²⁺ pump inhibitor. *Am J Physiol Cell Physiol*. 2001 Apr;280(4):C1027-30.
- [2]. Yi-fei Chen, et al. Plasma membrane Ca²⁺-ATPase regulates Ca²⁺ signaling and the proliferation of airway smooth muscle cells. *Eur J Pharmacol*. 2014 Oct 5;740:733-41.

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

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