

Caloxin 2A1 acetate

Chemical Properties

CAS No. :

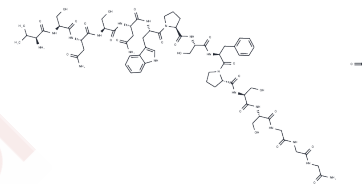
Formula: C66H95N19O24

Molecular Weight: 1538.57

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Caloxin 2A1 acetate is an inhibitor of extracellular plasma membrane Ca ²⁺ -ATPase (PMCA) peptide. Caloxin 2A1 acetate inhibits Ca ²⁺ -dependent formation of the 140-kDa acid-stable acylphosphate.
Targets(IC50)	Proton pump
In vitro	Caloxin 2A1 acetate increases airway smooth muscle cells (ASMCs) apoptosis[1]. Caloxin 2A1 acetate 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[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.650 mL	3.2498 mL	6.4995 mL
5 mM	0.130 mL	0.650 mL	1.2999 mL
10 mM	0.065 mL	0.325 mL	0.650 mL
50 mM	0.013 mL	0.065 mL	0.130 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

J Chaudhary, et al. Caloxin: a novel plasma membrane Ca²⁺ pump inhibitor. Am J Physiol Cell Physiol. 2001 Apr; 280(4):C1027-30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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