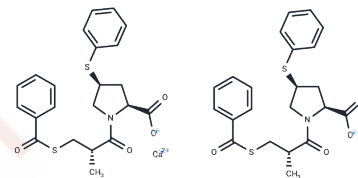


## Zofenopril calcium

### Chemical Properties

CAS No. :	81938-43-4
Formula:	C <sub>44</sub> H <sub>44</sub> CaN <sub>2</sub> O <sub>8</sub> S <sub>4</sub>
Molecular Weight:	897.17
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



### Biological Description

Description	Zofenopril calcium (SQ26991) is an antioxidant that acts as an angiotensin-converting enzyme inhibitor. ACE Zofenopril is a pro-drug designed to undergo metabolic hydrolysis yielding the active free sulfhydryl compound zofenoprilat, which is an angiotensin converting enzyme (ACE) inhibitor . Zofenopril promotes the regeneration of peripheral nerve injuries in rat models . Zofenopril increases SR calcium cycling and stimulates active calcium uptake into the SR .
Targets(IC50)	RAAS, Reactive Oxygen Species, Angiotensin-converting Enzyme (ACE), ROS

### Solubility Information

Solubility	DMSO: 8.98 mg/mL (10.01 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1146 mL	5.5731 mL	11.1462 mL
5 mM	0.2229 mL	1.1146 mL	2.2292 mL
10 mM	0.1115 mL	0.5573 mL	1.1146 mL
50 mM	0.0223 mL	0.1115 mL	0.2229 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

Kalender, A.M., et al., Effect of Zofenopril on regeneration of sciatic nerve crush injury in a rat model. J Brachial Plex Peripher Nerve Inj, 2009. 4: p. 6.

Frascarelli, S., et al., Effects of zofenopril on cardiac sarcoplasmic reticulum calcium handling. J Cardiovasc Pharmacol, 2009. 54(5): p. 456-63.

Dal Bo, L., P. Mazzucchelli, and A. Marzo, Assay of zofenopril and its active metabolite zofenoprilat by liquid chromatography coupled with tandem mass spectrometry. J Chromatogr B Biomed Sci Appl, 2000. 749(2): p. 287-94.

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