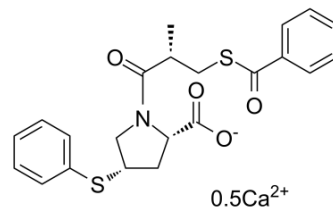


Zofenopril calcium

Cat. No.:	HY-B0655		
CAS No.:	81938-43-4		
Molecular Formula:	C ₂₂ H ₂₂ Ca _{0.5} NO ₄ S ₂		
Molecular Weight:	448.58		
Target:	Angiotensin-converting Enzyme (ACE); Reactive Oxygen Species		
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2 mg/mL (4.46 mM; Need ultrasonic)
H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration	Mass		
1 mM		2.2293 mL	11.1463 mL	22.2926 mL
5 mM		---	---	---
10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Zofenopril Calcium (SQ26991) is an antioxidant that acts as an angiotensin-converting enzyme inhibitor. Target: ACE. Zofenopril Calcium is a pro-drug designed to undergo metabolic hydrolysis yielding the active free sulfhydryl compound zofenoprilat, which is an angiotensin converting enzyme (ACE) inhibitor [1]. Zofenopril Calcium promotes the regeneration of peripheral nerve injuries in rat models [2]. Zofenopril Calcium increases SR calcium cycling and stimulates active calcium uptake into the SR [3].

REFERENCES

- [1]. 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.
- [2]. 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA