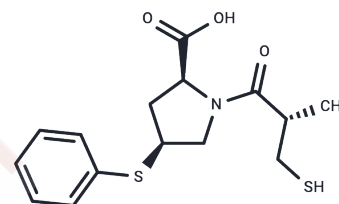


## Zofenoprilat

## Chemical Properties

CAS No. : 75176-37-3  
 Formula: C<sub>15</sub>H<sub>19</sub>NO<sub>3</sub>S<sub>2</sub>  
 Molecular Weight: 325.45  
 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	Zofenoprilat, an angiotensin-converting enzyme (ACE; IC <sub>50</sub> = 8 nM for rabbit lung enzyme) inhibitor and the active metabolite of the prodrug zofenopril, effectively counters angiotensin I- or bradykinin-induced contractions in isolated guinea pig ileum (EC <sub>50</sub> s = 3 and 1 nM, respectively). At a concentration of 10 nM, Zofenoprilat not only diminishes basal endothelin-1 secretion and nitric oxide (NO) production but also safeguards against TNF- $\alpha$ -stimulated increases in reactive oxygen species (ROS) and reductions in glutathione (GSH) levels within human umbilical vein endothelial cells (HUVECs). Furthermore, at 10 $\mu$ M, it delivers protection to primary human cardiac microvascular endothelial cells from doxorubicin-induced toxicity and enhances hydrogen sulfide (H <sub>2</sub> S) production, along with the adhesion, migration, and proliferation of HUVECs. Additionally, Zofenoprilat (400 $\mu$ M) mitigates end diastolic pressure and lactate dehydrogenase (LDH) release, demonstrating therapeutic potential in a Langendorff isolated perfused rat heart model of ischemia-reperfusion injury.
Targets(IC <sub>50</sub> )	Others,Angiotensin-converting Enzyme (ACE)

## Solubility Information

Solubility	Ethanol: Soluble DMSO: Soluble Acetonitrile: Soluble Methanol: Soluble DMF: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.0727 mL	15.3633 mL	30.7267 mL
5 mM	0.6145 mL	3.0727 mL	6.1453 mL
10 mM	0.3073 mL	1.5363 mL	3.0727 mL
50 mM	0.0615 mL	0.3073 mL	0.6145 mL

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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.

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