

## Perilloxin

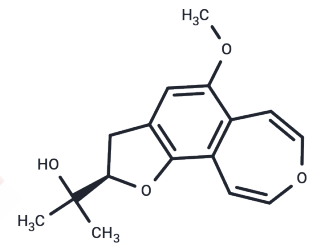
## Chemical Properties

CAS No. : 263249-77-0

Formula: C<sub>16</sub>H<sub>18</sub>O<sub>4</sub>

Molecular Weight: 274.31

Storage: Store at low temperature, Keep away from direct sunlight  
 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	Perilloxin possesses measurable inhibitory activity against cyclooxygenase-1 (COX-1), exhibiting an IC <sub>50</sub> value of 23.2 μM, and this biochemical property supports its application as a functional research molecule for studying inflammatory signaling pathways, enzyme inhibition mechanisms, and structure-activity relationships relevant to prostaglandin biosynthesis and inflammation-associated biological processes.
Targets(IC <sub>50</sub> )	COX
In vitro	<p><b>Method:</b> Bioassay-guided fractionation of <i>Perilla frutescens</i> stem extracts was performed, and isolated compounds were tested in an in vitro cyclooxygenase-1 inhibition assay.</p> <p><b>Result:</b> Perilloxin and dehydroperilloxin inhibited cyclooxygenase-1 with IC<sub>50</sub> values of 23.2 μM and 30.4 μM, respectively[1].</p>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6455 mL	18.2276 mL	36.4551 mL
5 mM	0.7291 mL	3.6455 mL	7.291 mL
10 mM	0.3646 mL	1.8228 mL	3.6455 mL
50 mM	0.0729 mL	0.3646 mL	0.7291 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

Liu J, Steigel A, Reininger E, Bauer R. Two new prenylated 3-benzoxepin derivatives as cyclooxygenase inhibitors from *Perilla frutescens* var. *acuta*. *J Nat Prod*. 2000 Mar;63(3):403-5.

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