

## Ovatodiolide

## Chemical Properties

CAS No. : 3484-37-5

Formula: C<sub>20</sub>H<sub>24</sub>O<sub>4</sub>

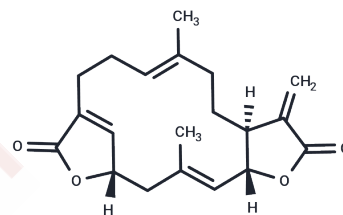
Molecular Weight: 328.4

Keep away from direct sunlight, Store at low temperature

Storage:

Store at -20°C

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ovatodiolide, a small molecule compound derived from fennel, has anti-inflammatory and potentially neuroprotective activity, inhibits colon tumorigenesis, and can be used in the study of neurological disorders.
Targets(IC50)	Apoptosis,Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0451 mL	15.2253 mL	30.4507 mL
5 mM	0.609 mL	3.0451 mL	6.0901 mL
10 mM	0.3045 mL	1.5225 mL	3.0451 mL
50 mM	0.0609 mL	0.3045 mL	0.609 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

Xia Q, Xie J, Zhang J, Zhang L, Zhou Y, Zhu B, Wu Y, Yang Z, Li J. Ovatodiolide induces autophagy-mediated cell death through the p62-Keap1-Nrf2 signaling pathway in chronic myeloid leukemia cells. *Chem Biol Interact.* 2024 Jan 5;387:110819.

Lu CW, et al. Alleviating Effects of Ovatodiolide and Antcin K Supplements on High-Fat Diet-Induced Cardiovascular Dysfunction in ApoE-Knockout Mice by Attenuating Oxidative Stress. *Nutrients.* 2023 Sep 20;15(18):4074.

Chiou WC, et al. Ovatodiolide inhibits SARS-CoV-2 replication and ameliorates pulmonary fibrosis through suppression of the TGF- $\beta$ /T $\beta$ Rs signaling pathway. *Biomed Pharmacother.* 2023 May;161:114481.

Hu C, et al. Ovatodiolide protects ischemia-reperfusion-induced neuronal injury via microglial neuroinflammation via mediating SIRT1/NF- $\kappa$ B pathway. *Brain Res Bull.* 2022 Mar;180:97-107.

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