

## Gingerenone A

## Chemical Properties

CAS No. : 128700-97-0

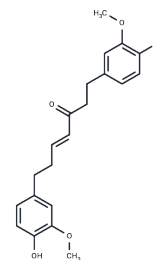
Formula: C<sub>21</sub>H<sub>24</sub>O<sub>5</sub>

Molecular Weight: 356.41

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Gingerenone A is an effective Nrf2-Gpx4 activator. It is a small molecule compound isolated from ginger. It has anti-cancer activity, can prolong the cell cycle of cancer cells, and can inhibit dextran sodium sulfate (DSS)-induced colitis. Ferroptosis in secondary liver injury (SLI) in mice.
Targets(IC50)	Ferroptosis, Glutathione Peroxidase, Nrf2

## Solubility Information

Solubility	DMSO: 125 mg/mL (350.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.61 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.8058 mL	14.0288 mL	28.0576 mL
5 mM	0.5612 mL	2.8058 mL	5.6115 mL
10 mM	0.2806 mL	1.4029 mL	2.8058 mL
50 mM	0.0561 mL	0.2806 mL	0.5612 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.

### Reference

Chen Y, et al. Gingerenone A Alleviates Ferroptosis in Secondary Liver Injury in Colitis Mice via Activating Nrf2-Gpx4 Signaling Pathway. *J Agric Food Chem.* 2022 Oct 5;70(39):12525-12534.

Yu TJ, et al. Gingerenone A Induces Antiproliferation and Senescence of Breast Cancer Cells. *Antioxidants (Basel).* 2022 Mar 19;11(3):587.

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