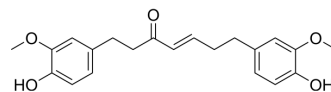


Gingerenone A

Cat. No.:	HY-120912												
CAS No.:	128700-97-0												
Molecular Formula:	C ₂₁ H ₂₄ O ₅												
Molecular Weight:	356.41												
Target:	Keap1-Nrf2; Glutathione Peroxidase												
Pathway:	NF-κB; Apoptosis; Metabolic Enzyme/Protease												
Storage:	<table border="0"> <tr> <td>Pure form</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Pure form	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Pure form	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (280.58 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.01 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.01 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.01 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	Gingerenone A is a Nrf2-Gpx4 activator with anti-breast-cancer properties. Gingerenone A results a delayed G2/M in cancer cells, following oxidative stress and senescence responses. Gingerenone A also alleviates ferroptosis in secondary liver injury (SLI) in dextran sodium sulfate (DSS)-induced colitis mice. Gingerenone A can be isolated from Zingiber officinale ^{[1][2]} .
IC₅₀ & Target	Nrf2-Gpx4 ^[1]

REFERENCES

- [1]. Yu T.J, et al. Gingerenone A Induces Antiproliferation and Senescence of Breast Cancer Cells. *Antioxidants (Basel)*. 2022 Mar 19;11(3):587.
- [2]. 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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