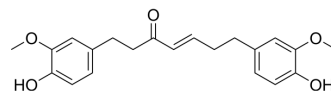


Gingerenone A

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:	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	1. 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			
	2. 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			
	3. 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]} .
IC ₅₀ & 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA