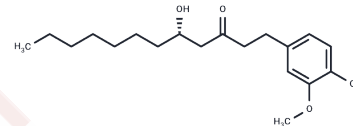


## 8-Gingerol

## Chemical Properties

CAS No. :	23513-08-8
Formula:	C19H30O4
Molecular Weight:	322.44
Storage:	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	1. 8-Gingerol has antioxidant activity. 2. 8-Gingerol has antimycobacterial activity. 3. 8-Gingerol could be used as an effective skin-whitening agent. 4. 8-Gingerol shows antipyretic and anti-inflammation characteristics. 5. 8-Gingerol seems to be effective in an animal model of rheumatoid arthritis. 6. 8-Gingerol inhibits the anti-serotonin 3 receptor function, exhibits cardiotoxic activity. 7. 8-Gingerol affects gastric motility and potentially have an antispasmodic effect on the gastrointestinal system. 8. 8-gingerol inhibited melanogenesis in B16F1 and B16F1 cells by down-regulation of both mitogen-activated protein kinases (MAPK) and protein kinase A (PKA) signaling pathways or through its antioxidant properties.
Targets(IC50)	Apoptosis,MMP,EGFR,Antioxidant,Akt,Caspase,Antibacterial,STAT,Autophagy,mTOR,PERK,PI3K,TRP/TRPV Channel

## Solubility Information

Solubility	DMSO: 250 mg/mL (775.34 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (31.01 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (31.01 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	3.1014 mL	15.5068 mL	31.0135 mL
5 mM	0.6203 mL	3.1014 mL	6.2027 mL
10 mM	0.3101 mL	1.5507 mL	3.1014 mL
50 mM	0.062 mL	0.3101 mL	0.6203 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

Huang H C , Chou Y C , Wu C Y , et al. [8]-Gingerol inhibits melanogenesis in murine melanoma cells through down-regulation of the MAPK and PKA signal pathways[J]. Biochemical and Biophysical Research Communications, 2013, 438(2):375-381.

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