

8-Gingerol

Chemical Properties

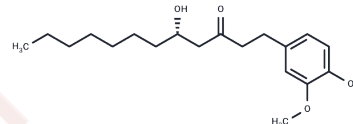
CAS No. : 23513-08-8

Formula: C₁₉H₃₀O₄

Molecular Weight: 322.44

Appearance: no data available

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



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)	Antioxidant,Antibacterial,TRP/TRPV Channel

Solubility Information

Solubility	DMSO: 70 mg/mL (217.09 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	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

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.

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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