

## 10-Gingerol

## Chemical Properties

CAS No. : 23513-15-7

Formula: C<sub>21</sub>H<sub>34</sub>O<sub>4</sub>

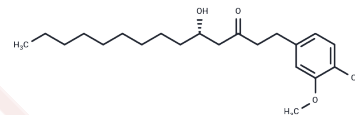
Molecular Weight: 350.49

Appearance: no data available

Storage:

store at low temperature, keep away from direct sunlight

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



## Biological Description

Description	10-Gingerol-induced apoptosis was accompanied by phosphorylation of the mitogen-activated protein kinase (MAPKs) family, p38 MAPK (p38), c-Jun N-terminal kinase (JNK), and extracellular signal-regulated kinase (ERK).
Targets(IC50)	Apoptosis

## Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 64 mg/mL (182.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8531 mL	14.2657 mL	28.5315 mL
5 mM	0.5706 mL	2.8531 mL	5.7063 mL
10 mM	0.2853 mL	1.4266 mL	2.8531 mL
50 mM	0.0571 mL	0.2853 mL	0.5706 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

- Ryu MJ<sup>1</sup>, Chung HS.[10]-Gingerol induces mitochondrial apoptosis through activation of MAPK pathway in HCT116 human colon cancer cells.In Vitro Cell Dev Biol Anim. 2015 Jan;51(1):92-101.
- Zhang B, Zhao J, Wang Z, et al. Identification of Multi-Target Anti-AD Chemical Constituents From Traditional Chinese Medicine Formulae by Integrating Virtual Screening and In Vitro Validation. Frontiers in Pharmacology. 2021: 1781
- Ho SC<sup>1</sup>, Chang KS, Lin CC.Anti-neuroinflammatory capacity of fresh ginger is attributed mainly to 10-gingerol.Food Chem. 2013 Dec 1;141(3):3183-91.
- Sadakane C<sup>1</sup>, Muto S, Nakagawa K,et al.10-Gingerol, a component of rikkunshito, improves cisplatin-induced anorexia by inhibiting acylated ghrelin degradation.Biochem Biophys Res Commun. 2011 Sep 2;412(3):506-11.

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