[**Product Information**]

**Name:** 10-Gingerol  
**Catalog No.:** CFN99132  
**Cas No.:** 23513-15-7  
**Purity:** > 98%  
**M.F:** C_{21}H_{34}O_{4}  
**M.W:** 350.49  
**Physical Description:** Powder  
**Synonyms:** (5S)-5-hydroxy-1-(4-hydroxy-3-methoxyphenyl)-3-tetradecanone.

[**Intended Use**]

1. Reference standards;  
2. Pharmacological research;  
3. Food and cosmetic research;  
4. Synthetic precursor compounds;  
5. Intermediates & Fine Chemicals;  
6. Ingredient in supplements, beverages;  
7. Aromatics;  
8. Others.

[**Source**]

The rhizomes of Zingiber officinale Roscoe.
**Biological Activity or Inhibitors**

10-Gingerol, fresh ginger extract, inhibits the production of nitric oxide, IL-1β, IL-6 and TNF-α as well as their mRNA levels in LPS-activated BV2 microglia, exhibits a significant anti-neuroinflammatory capacity.[1]

10-Gingerol improves cisplatin-induced anorexia by inhibiting acylated ghrelin degradation.[2]

10-Gingerol inhibits proliferation and invasion of MDA-MB-231 breast cancer cells through suppression of Akt and p38MAPK activity, suggests that it could be a potential therapeutic agent for the prevention and treatment of breast cancer.[3]

10-Gingerol has ameliorative effect on drug induced hepatotoxicity in albino rats.[4]

**Solvent**

Ethyl ether, Chloroform, Dichloromethane, DMSO, Ethyl Acetate, Acetone, etc.

**HPLC Method**[5]

Mobile phase: Acetonitrile- H2O, gradient elution
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 200 nm.

**Storage**

2-8°C, Protected from air and light, refrigerate or freeze.

**References**


