[ Product Information ]

Name: Zingerone
Catalog No.: CFN99702
Cas No.: 122-48-5
Purity: >=98%
M.F: C_{11}H_{14}O_{3}
M.W: 194.23

Physical Description: Powder

Synonyms:[0]-Paradol;3-Methoxy-4-hydroxybenzylacetone;4-(4-hydroxy-3;4-(4-hydroxy-3-methoxyphenyl)-2-butanone;Gingerone.

[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

[ Source ]

The rhizomes of Zingiber officinale Rosc.
**[Biological Activity or Inhibitors]**

Zingerone, a major component found in ginger root, has been known as anti-mutagenic and anti-carcinogenic activities that are often associated with its anti-oxidative and anti-inflammatory activities; zingerone has not only the antioxidant effect by constitutive suppression of ROS, but also anti-inflammatory effects by suppression of nuclear factor (NF)-kappaB activation in aged rat; zingerone treatment can suppress gene activation of pro-inflammatory enzymes, COX-2 and iNOS, which are upregulated with aging through NF-kappaB activation and IKK/MAPK signaling pathway.\(^1\)

Zingerone attenuates lipopolysaccharide-induced acute lung injury in mice.\(^2\)

Zingerone has the potential in mitigating radiation-induced mortality and cytogenetic damage, which may be attributed to inhibition radiation-induced decline in the endogenous antioxidant levels and scavenging of radiation-induced free radicals.\(^3\)

Zingerone can inhibit biofilm formation and improve antibiofilm efficacy of ciprofloxacin against Pseudomonas aeruginosa PAO1, it could as potential phytotherapeutic agent which in future can be employed to formulate preventive strategies against biofilm associated infections caused by P.aeruginosa.\(^4\)

Zingerone can be recommended as a supplement to shrimp feed to increase growth, immunity, and disease resistance against the pathogen, V.alginolyticus, use of zingerone as appetizer and immunostimulant in shrimp is promising.\(^5\)

Zingerone appears to produce less lipolytic actions in adipocytes derived from the High Fat Diet (HFD)-fed rats, it may has anti-obesity actions.\(^6\)

**[Solvent]**

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

**[HPLC Method]**\(^7\)

Mobile phase: Methanol -H2O=47:53 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;
The wavelength of determination: 280 nm.

[ **Storage** ]

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

[ **References** ]


[ **Contact** ]

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