

10-Shogaol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 10-Shogaol

Catalog No.: CFN92300

Cas No.: 36752-54-2

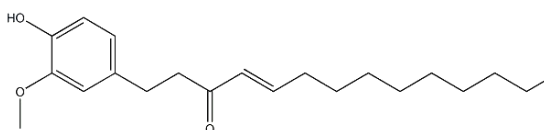
Purity: >98%

M.F: C₂₁H₁₂O₃

M.W: 332.48

Physical Description: Powder

Synonyms: 1-(4-Hydroxy-3-methoxyphenyl)-4-tetradecen-3-one.



[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]

10-Shogaol is the only nonpungent compound among the gingerols and shogaols, suggesting its usefulness as a functional ingredient in food.^[1]

10-Shogaol, as an antioxidant for human skin cell growth and a migration enhancer with potential to be a novel wound repair agent, it can enhance growth factor production in transforming growth factor- β (TGF- β), platelet derived growth factor- $\alpha\beta$ (PDGF- $\alpha\beta$) and vascular endothelial growth factors (VEGF) of both cells; it also promotes human normal epidermal keratinocytes and dermal fibroblasts cell growths.^[2]

Shogaols are metabolized extensively in mouse and human to form thiol-conjugated metabolites and glutathione (GSH) might play an important role in the cancer-preventive activity of ginger. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 25 °C;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Auffret M, Béné J, Gautier S, *et al. Nutr. Neurosci.*, 2013, 9(3-4):169-78.

[2] Chen C Y, Cheng K C, Chang A Y, *et al. Int. J. Mol.Sci.*, 2012, 13(2):1762-77.

[3] Chen H, Soroka D N, Hu Y, *et al. Mol. Nutr. Food Res.*, 2013, 57(3):447–58.

[4] Zhang L, Wang Z M, Wang W H, *et al. China Journal of Chinese Materia Medica*, 2008,

33(9):1010-3.

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