Natural Products



8-Shogaol Datasheet

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4th Edition (Revised in July, 2016)

[Product Information]

Name: 8-Shogaol

Catalog No.: CFN92299

Cas No.: 73069-25-7

Purity: >98%

M.F: C₁₉H₂₈O₃

M.W: 304.42

Physical Description: Powder

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

[Intended Use]

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

[<u>Source</u>]

The rhizomes of Zingber officinale Rosc.

[Biological Activity or Inhibitors]

8-Shogaol, one of the pungent phenolic compounds in *ginger*, induces apoptosis in a time- and concentration-dependent manner via reactive oxygen species generation, glutathione depletion, and caspase activation in human leukemia cells.^[1]

8-Shogaol, 8-gingerol, and 8-paradol exhibit anti-platelet activities with IC 50 values ranging from 3 to 7 uM.^[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]

8-Shogaol shows as active in vivo against cytotoxic drug-induced emesis, it has 5-HT3 receptor blocking activity.^[4]

[Solvent]

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

[HPLC Method]^[5]

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] Pochuen S, Chen Y O, Daihhuang K, et al. J. Agr. Food Chem., 2010, 58(6):3847-54.

[2] Nurtjahja-Tjendraputra E, Ammit A J, Roufogalis B D, *et al. Thromb. Res., 2003, 111(4-5):259-65.*

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

[4] Abdelaziz H, Nahrstedt A, Petereit F, *et al. Planta Med., 2005, 71(7):609-16.*[5] 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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