

## Product Data Sheet

Product Name: [10]-Shogaol

Cat. No.: GC35012

### Chemical Properties

Cas. No. 36752-54-2

SMILES CCCCCCCCC/C=C/C(CCC1=CC=C(O)C(OC)=C1)=O

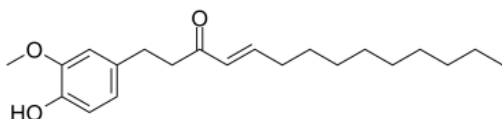
Formula  $C_{21}H_{32}O_3$  M.Wt 332.48

Solubility Soluble in DMSO Storage 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



### Background

[10]-Shogaol is an antioxidant from *Zingiber officinale* for human skin cell growth and a migration enhancer. [10]-Shogaol inhibits COX-2 with an IC<sub>50</sub> of 7.5 μM and has antiproliferation activity[1][2][3]. COX-2|7.5 μM (IC<sub>50</sub>)

[1]. Chen CY, et al. 10-Shogaol, an antioxidant from *Zingiber officinale* for skin cell proliferation and migration enhancer. *Int J Mol Sci.* 2012;13(2):1762-77. [2]. van Breemen RB, et al. Cyclooxygenase-2 inhibitors in ginger (*Zingiber officinale*). *Fitoterapia.* 2011 Jan;82(1):38-43. [3]. Liu CM, et al. Ginger

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Phytochemicals Inhibit Cell Growth and Modulate Drug Resistance Factors in Docetaxel Resistant Prostate Cancer Cell. Molecules. 2017 Sep 5;22(9). pii: E1477.

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