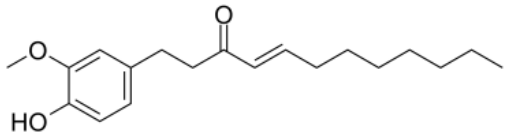
# Product Data Sheet

Product Name: [8]-Shogaol
Cat. No.: GC35013

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 36700-45-5 | | |
| SMILES | CCCCCCC/C=C/C(CCC1=CC=C(O)C(OC)=C1)=O | | |
| Formula | $C_{19}H_{28}O_3$ | M.Wt | 304.42 |
| Solubility | DMSO: 125 mg/mL (410.62 mM) | Storage | Store at -20°C |
| 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

[8]-Shogaol, one of the pungent phenolic compounds in ginger, exhibits anti-platelet activity (IC50=5 μM) and inhibits COX-2 (IC50=17.5 μM). [8]-Shogaol induces apoptosis in human leukemia cells[1][2][3][4]. COX-2|17.5 μM (IC50)

[1]. Shieh PC, et al. Induction of apoptosis by [8]-shogaol via reactive oxygen species generation, glutathione depletion, and caspase activation in human leukemia cells. J Agric Food Chem. 2010 Mar 24;58(6):3847-54. [2]. van Breemen RB, et al. Cyclooxygenase-2 inhibitors in ginger (Zingiber

officinale). Fitoterapia. 2011 Jan;82(1):38-43. [3]. Nurtjahja-Tjendraputra E, et al. Effective anti-platelet and COX-1 enzyme inhibitors from pungent constituents of ginger. Thromb Res. 2003;111(4-5):259-65. [4]. Shieh PC, et al. Induction of apoptosis by [8]-shogaol via reactive oxygen species generation, glutathione depletion, and caspase activation in human leukemia cells. J Agric Food Chem. 2010 Mar 24;58(6):3847-54.

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