Proteins



[10]-Shogaol

Cat. No.: HY-N2434 CAS No.: 36752-54-2 Molecular Formula: C₂₁H₃₂O₃ Molecular Weight: 332.48 COX Target:

Pathway: Immunology/Inflammation Storage: 4°C, protect from light

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (300.77 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.0077 mL	15.0385 mL	30.0770 mL
	5 mM	0.6015 mL	3.0077 mL	6.0154 mL
	10 mM	0.3008 mL	1.5038 mL	3.0077 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.52 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.52 mM); Suspended solution; Need ultrasonic
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.52 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	[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 $_{50}$ of 7.5 μ M and has antiproliferation activity $^{[1][2][3]}$.

COX-2 IC₅₀ & Target $7.5 \, \mu M \, (IC_{50})$

CUSTOMER VALIDATION

• Food Chem. 2024 Sep 15, 452, 139425.

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REFERENCES

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

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

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