

[8]-Shogaol

Chemical Properties

CAS No. : 36700-45-5

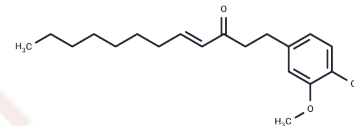
Formula: C₁₉H₂₈O₃

Molecular Weight: 304.42

Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	[8]-Shogaol is a component of ginger and maintains anti-inflammatory activity as a cyclooxygenase-2 inhibitor.
Targets(IC50)	Apoptosis, COX

Solubility Information

Solubility	DMSO: 145 mg/mL (476.32 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (16.42 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2849 mL	16.4247 mL	32.8494 mL
5 mM	0.657 mL	3.2849 mL	6.5699 mL
10 mM	0.3285 mL	1.6425 mL	3.2849 mL
50 mM	0.0657 mL	0.3285 mL	0.657 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tjendraputra E, et al. Effect of ginger constituents and synthetic analogues on cyclooxygenase-2 enzyme in intact cells. *Bioorg Chem.* 2001 Jun;29(3):156-63.

Chen H, et al. Characterization of thiol-conjugated metabolites of ginger components shogaols in mouse and human urine and modulation of the glutathione levels in cancer cells by [6]-shogaol. *Mol Nutr Food Res.* 2013 Mar; 57(3):447-58.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481