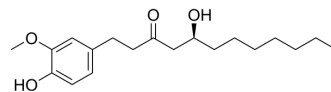


## 8-Gingerol

<b>Cat. No.:</b>	HY-N0447
<b>CAS No.:</b>	23513-08-8
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>30</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	322.44
<b>Target:</b>	TRP Channel; Bacterial
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling; Anti-infection
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (310.14 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1014 mL	15.5068 mL	31.0135 mL
	5 mM	0.6203 mL	3.1014 mL	6.2027 mL
	10 mM	0.3101 mL	1.5507 mL	3.1014 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (7.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (7.75 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (7.75 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

8-Gingerol, found in the rhizomes of ginger (*Z. officinale*) with oral bioavailability, activates TRPV1, with an EC<sub>50</sub> of 5.0 μM. 8-Gingerol inhibits COX-2, and inhibits the growth of *H. pylori* in vitro<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

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

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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- [1]. Dedov, V.N., et al. Gingerols: a novel class of vanilloid receptor (VR1) agonists. Br. J. Pharmacol. 137(6), 793-798 (2002).
- [2]. Chrubasik, S., et al. Zingiberis rhizoma: A comprehensive review on the ginger effect and efficacy profiles. Phytomedicine 12(9), 684-701 (2005).
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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