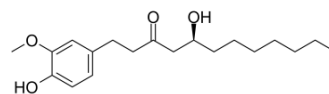


8-Gingerol

Cat. No.:	HY-N0447
CAS No.:	23513-08-8
Molecular Formula:	C ₁₉ H ₃₀ O ₄
Molecular Weight:	322.44
Target:	TRP Channel; Bacterial
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Anti-infection
Storage:	-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.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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 EC₅₀ of 5.0 μM. 8-Gingerol inhibits COX-2, and inhibits the growth of *H. pylori* in vitro^{[1][2]}.

REFERENCES

[1]. Dedov, V.N., et al. Gingerols: a novel class of vanilloid receptor (VR1) agonists. *Br. J. Pharmacol.* 137(6), 793-798 (2002).

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

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