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Zuschläge

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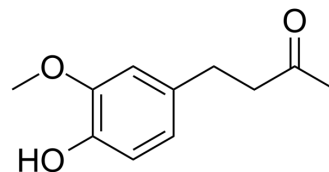
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Zingerone

Cat. No.:	HY-14621
CAS No.:	122-48-5
Molecular Formula:	C ₁₁ H ₁₄ O ₃
Molecular Weight:	194.23
Target:	NF-κB
Pathway:	NF-κB
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (514.85 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		5.1485 mL	25.7427 mL	51.4854 mL
		5 mM		1.0297 mL	5.1485 mL	10.2971 mL
		10 mM		0.5149 mL	2.5743 mL	5.1485 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 (12.87 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.87 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (12.87 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Zingerone (Vanillylacetone) is a nontoxic methoxyphenol isolated from Zingiber officinale, with potent anti-inflammatory, antidiabetic, antilipolytic, antidiarrhoeic, antispasmodic and anti-tumor ^[3] properties ^[1] . Zingerone alleviates oxidative stress and inflammation, down-regulates NF-κB mediated signaling pathways ^[2] . Zingerone acts as an anti-mitotic agent, and inhibits the growth of neuroblastoma cells ^[3] .
IC ₅₀ & Target	NF-κB ^[3]
In Vitro	Zingerone is a nontoxic methoxyphenol with potent anti-inflammatory, antidiabetic, antilipolytic, antidiarrhoeic, antispasmodic properties ^[1] .

	Zingerone (0-2 mM) decreases neuroblastoma cell survival^[3]. Zingerone (0-2 mM) reduces cyclin D1 expression, increases cleavage of caspase-3 and PARP-1 in BE(2)-M17 cells^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Zingerone (50, 100 mg/kg, p.o. daily for 21 days) protects against alloxan-induced diabetes via alleviation of oxidative stress and inflammation in rat^[2]. Zingerone (10 mg/kg, i.p.) inhibits tumor progression through mitotic arrest, failure of cell division, and stimulation of apoptosis^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Mol Sci. 2022, 23(17), 9696.

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REFERENCES

- [1]. Ahmad B, et al. A Review on Pharmacological Properties of Zingerone (4-(4-Hydroxy-3-methoxyphenyl)-2-butanone). ScientificWorldJournal. 2015;2015:816364.
- [2]. Ahmad B, et al. Zingerone (4-(4-hydroxy-3-methylphenyl) butan-2-one) protects against alloxan-induced diabetes via alleviation of oxidative stress and inflammation: Probable role of NF-κB activation. Saudi Pharm J. 2018 Dec;26(8):1137-1145.
- [3]. Choi JS, et al. Zingerone Suppresses Tumor Development through Decreasing Cyclin D1 Expression and Inducing Mitotic Arrest. Int J Mol Sci. 2018 Sep 19;19(9).

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

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