

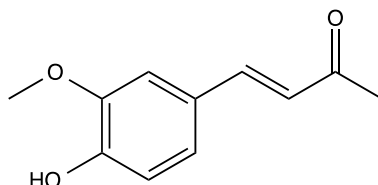
Catalog # 10-2526

Dehydrozingerone

CAS# 1080-12-2

(E)-4-(4-Hydroxy-3-methoxyphenyl)but-3-ene-2-one

Lot # X105326



Dehydrozingerone is a structural half analog of curcumin and is isolated from ginger rhizomes. Dehydrozingerone displays antioxidant, antibacterial and antifungal properties.¹ It has also been shown to possess various antitumor effects^{2,3} and inhibit growth factor/peroxide-stimulated vascular smooth muscle function⁴.

- 1) Kubra *et al.* (2014), *Structure-function activity of dehydrozingerone and its derivatives as antioxidant and antimicrobial compounds*; J.Food Sci.Technol. **51** 245
- 2) Motohashi *et al.* (1998), *Inhibitory effects of dehydrozingerone and related compounds on 12-O-tetradecanoylphorbol-13-acetate induced Epstein-Barr virus early antigen activation*; Cancer Lett. **134** 37
- 3) Yogosawa *et al.* (2012), *Dehydrozingerone, a structural analog of curcumin, induces cell-cycle arrest at the G2/M phase and accumulates intracellular ROS in HT-29 human colon cancer cells*; J.Nat.Prod. **75** 2088
- 4) Liu *et al.* (2008), *Inhibitory effect of dehydrozingerone on vascular smooth muscle cell function*; J.Cardiovasc.Pharmacol. **52** 422

PHYSICAL DATA

Molecular Weight:	192.21
Molecular Formula:	C ₁₁ H ₁₂ O ₃
Purity:	>98% (TLC: 5% Methanol/methylene chloride; R _f = 0.75) NMR: (Conforms)
Solubility:	Soluble in DMSO (>25 mg/ml) and ethanol (20 mg/mL)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 1 month.

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