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

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; Rf = 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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.