

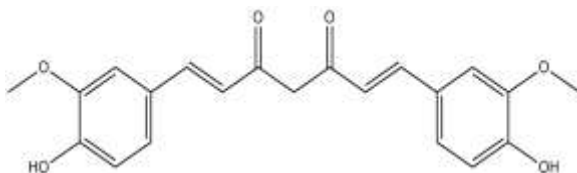
## Curcumin, *Curcuma longa* (High Purity)

**ALTERNATE NAME:** 1,7-bis(4-Hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione, Diferuloylmethane

**CATALOG #:** 1850-10, 50

**AMOUNT:** 10 mg, 50 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>21</sub>H<sub>20</sub>O<sub>6</sub>

**MOLECULAR WEIGHT:** 368.38

**CAS NUMBER:** 458-37-7

**APPEARANCE:** Orange yellow powder

**SOLUBILITY:** DMSO (25 mg/ml) or EtOH (10 mg/ml)

**PURITY:** ≥95% by <sup>1</sup>H NMR

**STORAGE:** Store at -20 °C

**DESCRIPTION:** Cell-permeable. An antioxidant and dual inhibitor of 5-lipoxygenase (IC<sub>50</sub> = 8 μM) and cyclooxygenase (COX) (IC<sub>50</sub> = 52 μM). Also inhibits glutathione S-transferase, induction of nitric oxide (NO) in activated macrophages and inhibits EGF-induced tyrosine phosphorylation of EGF receptors. Also shown to be a p300/CREB-binding protein-specific inhibitor of histone acetyltransferase, inhibiting the acetylation of histones H3 and H4 with an IC<sub>50</sub> of ~25 μM. Does not affect p300/CREB binding protein-associated factor (PCAF).

**REFERENCE:** Balasubramanyam, K., *et al.* (2004). *J. Biol. Chem.* **279**. 51163-51171.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

**RELATED PRODUCTS:**

- Anacardic Acid (Cat. No. 1849-5, 25)
- Apicidin (Cat. No. 1601-1)
- CI-994 (Cat. No. 1742-10, 50)
- DiscoveryPak™ HDAC Inhibitor Set (Cat. No. K851-6)
- HDAC Colorimetric Assay Kit (Cat. No. K331-100)
- HDAC Fluorometric Assay Kit (Cat. No. K330-100)
- HAT Activity Colorimetric Assay Kit (Cat. No. K332-100)
- M344 (Cat. No. 1607-1)
- MS-375 (Entinostat) (Cat. No. 1590-1,5)
- Panobinostat(LBH589) (Cat. No. 1612-1,5)
- Sodium 4-Phenylbutyrate (Cat. No. 1608-100,1000)
- Sodium Butyrate (Cat. No. 1609-1000)
- Splitomycin (Cat. No. 1610-5)
- Trichostatin A (Cat. No. 1606-1)
- Tubastatin A (Cat. No. 1724-1, 5)
- Valproic Acid, Sodium Salt (Cat. No. 1647-200)