

## Hexahydrocurcumin Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Hexahydrocurcumin

**Catalog No.:** CFN97749

**Cas No.:** 36062-05-2

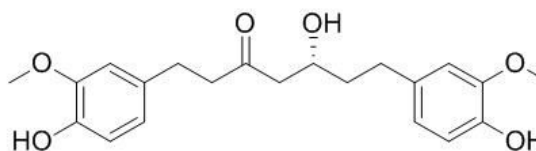
**Purity:** > 95%

**M.F:** C<sub>21</sub>H<sub>26</sub>O<sub>6</sub>

**M.W:** 374.43

**Physical Description:** Powder

**Synonyms:** 1,7-Bis(3-methoxy-4-hydroxyphenyl)-5-hydroxy-3-heptanone; 5-Hydroxy-1,7-bis(4-hydroxy-3-methoxyphenyl)-3-heptanone; 5-Hydroxy-1-(4-hydroxy-3-Methoxycyclohexyl)-7-(4-hydroxy-3-Methoxyphenyl)heptan-3-one.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

### [ Source ]

The rhizomes of *Curcuma longa* L.

## **[ Biological Activity or Inhibitors ]**

Hexahydrocurcumin has cytotoxic effect on human colorectal cancer cells SW480, treatment of SW480 cells with hexahydrocurcumin (100 microM) resulted in a massive accumulation of the cells in the G1/G0 phase of the cell cycle, which may prove hexahydrocurcumin is useful in cancer prevention.<sup>[1]</sup>

Hexahydrocurcumin can enhance inhibitory effect of 5-fluorouracil (5-FU) on HT-29 human colon cancer cells, hexahydrocurcumin together with 5-FU exerts a synergistic effect and may prove chemotherapeutically useful in treating human colon cancer.<sup>[2]</sup>

Hexahydrocurcumin has an inhibitory effect on platelet aggregation, suggests that the potential of it as an anti-atherosclerogenic agent in humans. <sup>[3]</sup>

Hexahydrocurcumin has in vitro antioxidant and anti-inflammatory activities, it has potential beneficial effects as a food and/or dietary supplement.<sup>[4]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]**<sup>[5]</sup>

Mobile phase: Acetonitrile- 10 mM Ammonium acetate pH 4.5, gradient elution ;

Flow rate: 1.5 ml/min;

Column temperature: 35 °C;

The wave length of determination: 426 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Chen C Y, Yang W L, Kuo S Y. *Nat. Prod. Commun.*, 2011, 6(11):1671-2.

[2] Srimuangwong K, Tocharus C, Chintana P Y, *et al.* *World J.Gastroentero.*, 2012, 18(19):2383-9.

[3] Dong H P, Yang R C, Chunag I C, *et al.* *Nat. Prod. Commun.*, 2012, 7(7):883-4.

[4] Li F, Nitteranon V, Tang X, *et al.* *Food Chem.*, 2012, 135(2):332-7.

[5] Marczylo T H, Verschoyle R D, Cooke D N, *et al.* *Cancer Chemoth. Pharm.*, 2007, 60(2):171-7.

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