

## Curzerenone Datasheet

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

### [ Product Information ]

**Name:** Curzerenone

**Catalog No.:** CFN92027

**Cas No.:** 20493-56-5

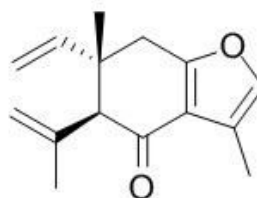
**Purity:** >95%

**M.F:** C<sub>15</sub>H<sub>18</sub>O<sub>2</sub>

**M.W:** 230.31

**Physical Description:** Powder

**Synonyms:** 6,7-Dihydro-5beta-isopropenyl-3,6beta-dimethyl-6-vinyl-4(5H)-benzofuranone.



### [ Intended Use ]

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

### [ Source ]

The rhizome of *Curcuma zedoaria*.

### [ Biological Activity or Inhibitors ]

Curzerenone exerts significant anti-inflammatory activity in the assay of carrageenin-induced hind paw edema in rats.<sup>[1]</sup>

Curzerenone has antioxidant activity, shows a potent free radical scavenging activity; it also has slightly effective against *E. coli* (IZ = 10.8 ± 0.52).<sup>[2]</sup>

Curzerenone has inhibition docking simulation against MurA Enzym.<sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Methanol-0.4% Acetic acid H<sub>2</sub>O-Isopropanol, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Claeson P, Panthong A, Tuchinda P, *et al. Planta Med.*, 1993, 59(5):451-4.

[2] Mathela S C J C S. *Pharmacognosy Research*, 2012, 4(2):80-4.

[3] Origenes Boy Kapitan, Laksmi Ambarsari, Syamsul Falah. *Journal of Applied Chemical Science*, 2016, 3 (1): 9-19.

[4] Peng B X, Chen S H. *Chinese Pharmaceutical Journal*, 2009, 44(22):1742-4.

## **[ Contact ]**

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