

## Moracin T Datasheet

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

### [ Product Information ]

**Name:** Moracin T

**Catalog No.:** CFN92326

**Cas No.:** 1146113-27-0

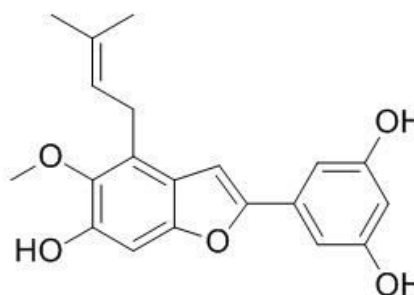
**Purity:** > 95%

**M.F:** C<sub>20</sub>H<sub>20</sub>O<sub>5</sub>

**M.W:** 340.4

**Physical Description:** Powder

**Synonyms:** 5-[6-Hydroxy-5-methoxy-4-(3-methyl-2-buten-1-yl)-2-benzofuranyl]-1,3-benzenediol.



### [ Intended Use ]

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

### [ Source ]

The root bark of *Morus alba* L.

### [ Biological Activity or Inhibitors ]

Moracin treatment can inhibit the double 12-O-tetradecanoylphorbol 13-acetate (TPA) treatment-induced morphological changes reflecting inflammatory response, including leucocyte infiltration, hyperplasia and cell proliferation; moracin treatment furthermore can significantly suppress the elevation in 4-HNE level and elevate expression of c-fos, c-myc and cyclooxygenase-2 (COX-2) in normal epidermis induced by double application of TPA; the moracin may be protective influence in tumor promotion, utilization of Moracin may open a new avenue in the treatment of tumorigenesis.<sup>[1]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Acetonitrile- 0.05% Phosphoric acid H<sub>2</sub>O, gradient elution;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 310 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Khyade V B, Lonkar U D. *Annals of Plant Sciences*, 2013,2(10):412-9.

[2] Won C S, Jeong J Y, Jin L Y, *et al. Prev. Nutr. Food Sci.*, 2013, 18(4):256-62.

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