

## Methyllicudone Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Methyllicudone

**Catalog No.:** CFN98012

**Cas No.:** 19956-54-8

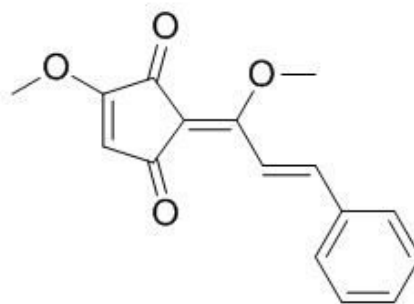
**Purity:** > 98%

**M.F:** C<sub>16</sub>H<sub>14</sub>O<sub>4</sub>

**M.W:** 270.28

**Physical Description:** Yellow powder

**Synonyms:** 3,4,5-Trimethyl-2(1H)-pyridinone.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Agricultural research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

### [ Source ]

The root of *Lindera pipericarpa*.

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

Methylglucuronide may have a neuroprotective potential via inhibition of neurotoxic microglial activation implicated in neurodegeneration.<sup>[1]</sup>

Methylglucuronide can strongly inhibit the growth of human cancer cells and colon tumor xenografted in nude mice, the anti-tumor effects are further confirmed with caspase-3 activation and degradation of PARP. <sup>[2]</sup>

Methylglucuronide shows 85% antifungal activity at 50 against the disease wheat leaf rust<sup>[3]</sup>

## **[ Solvent ]**

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

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

Mobile phase: 80% Methanol in water- 70% Acetonitrile in water, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1]Cui Y, Wu J, Jung S C, *et al. Eur. J. Pharmacol.*, 2012, 690(1-3):4-12.

[2] Oh H M, Choi S K, Ji M L, *et al. Bioorg. Med.Chem.*, 2005, 13(22):6182-7.

[3] Choi Y H, Kwon S Y, Kim J H, *et al. J.Korean Soc. Agr. Biotechnol.*, 2003,46(2):150-3.

[4]Babu K S, Li X C, Jacob M R, *et al. J. Med. Chem.*, 2006, 49(26):7877-86.

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