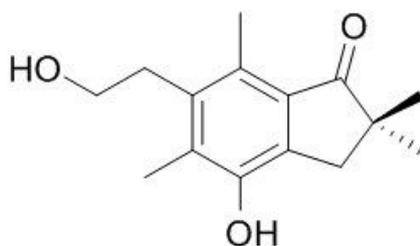


## Onitin Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)**[ Product Information ]****Name:** Onitin**Catalog No.:** CFN98898**Cas No.:** 53823-02-2**Purity:** > 95%**M.F:** C<sub>15</sub>H<sub>20</sub>O<sub>3</sub>**M.W:** 248.3**Physical Description:** Powder**Synonyms:** 2,3-Dihydro-4-hydroxy-6-(2-hydroxyethyl)-2,2,5,7-tetramethyl-1H-inden-1-one; 1H-Inden-1-one, 2,3-Dihydro-4-hydroxy-6-(2-hydroxyethyl)-2,2,5,7-tetraMethyl-**[ Intended Use ]**

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

**[ Source ]**The herbs of *Onychium japonicum*.**[ Biological Activity or Inhibitors ]**

Onitin, a smooth muscle relaxant from *Onychium siliculosum*.<sup>[1]</sup>

Onitin has antispasmodic activity, it can inhibit contractile responses of the ileum to agonists including ACh, K<sup>(+)</sup> and Ba<sup>(2+)</sup> in normal Tyrode solution and to exogenous Ca<sup>(2+)</sup> in high K<sup>(+)</sup> (80 mM), Ca<sup>(2+)</sup>-free Tyrode solution.<sup>[2]</sup>

Onitin exhibits hepatoprotective activities on tacrine-induced cytotoxicity in human liver-derived Hep G2 cells, (EC(50) = 85.8 +/- 9.3 microM); it also shows superoxide scavenging effects (IC(50) = 35.3 +/- 0.2 microM ) and DPPH free radical scavenging effect (IC(50) of 35.8 +/- 0.4 microM ).<sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]**

Not data available.

### **[ Storage ]**

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

### **[ References ]**

[1] Ho S T, Yang M S, Wu T S, *et al. Planta Med.*, 1985, 51(2):148-50.

[2] Yang M S. *Planta Med.*, 1986, 52(1):25-7.

[3] Oh H, Kim D H, Cho J H, *et al. J. Ethnopharmacol.*, 2004, 95(2-3):421-4.

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