

## Yatein Datasheet

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

### [ Product Information ]

**Name:** Yatein

**Catalog No.:** CFN98635

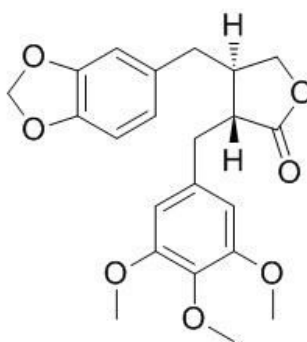
**Cas No.:** 40456-50-6

**Purity:** > 95%

**M.F:** C<sub>22</sub>H<sub>24</sub>O<sub>7</sub>

**M.W:** 400.4

**Physical Description:** Powder



**Synonyms:** (3R,4R)-4-(1,3-benzodioxol-5-ylmethyl)-3-[(3,4,5-trimethoxyphenyl)methyl]oxolan-2-one; Dihydroanhydropodorhizol; Deoxypodorhizone.

### [ Intended Use ]

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

### [ Source ]

The leaves of *Chamaecyparis obtusa*.

### [ Biological Activity or Inhibitors ]

Yatein is an antiviral agent against HSV-1 replication, the mechanisms of antiviral action of yatein seem to be mediated, by inhibiting HSV-1 alpha gene expression, including expression of the ICP0 and ICP4 genes, and by arresting HSV-1 DNA synthesis and structural protein expression in HeLa cells.<sup>[1]</sup>

Yatein is a lignan precursor of podophyllotoxin, a key agent in anticancer drugs, it can potentially inhibit P3X murine myeloma cell proliferation, resulting in approximately 75% cell death in response to a 25 ug/mL treatment with the lignan.<sup>[2]</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] Kuo Y C, Kuo Y H, Lin Y L, *et al. Antiviral Res.*, 2006, 70(3):112-20.

[2] Donoso-Fierro C, Tiezzi A, Ovidi E, *et al. Pharm. Biol.*, 2015, 53(3):378-85.

### **[ Contact ]**

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