

## Corydalmine Datasheet

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

### [ Product Information ]

**Name:** Corydalmine

**Catalog No.:** CFN98384

**Cas No.:** 30413-84-4

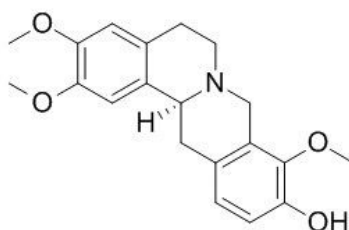
**Purity:** > 95%

**M.F:** C<sub>20</sub>H<sub>23</sub>NO<sub>4</sub>

**M.W:** 341.4

**Physical Description:** Powder

**Synonyms:** (-)-Kikemanine; (13aS)-5,8,13,13a-Tetrahydro-2,3,9-trimethoxy-6H-dibenzo[a, g]quinolizin-10-ol; Kikemanin; Kikemanine; Schefferine.



### [ Intended Use ]

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

### [ Source ]

The bulbs of *Corydalis yanhusuo*.

### [ Biological Activity or Inhibitors ]

1-Corydalmine, an alkaloid isolated from roots of *Corydalis chaerophylla*, can inhibit spore germination of some plant pathogenic as well as saprophytic fungi e.g. *Alternaria brassicae*, *A. brassicicola*, *A. solani*, *Curvularia lunata*, *C. maculans*, *C. sp.*, *C. pallscens*, *Erysiphe pisi*, *Fusarium udum*, *Helminthosporium species*, *H. penniseti* and a *Heterosporium* species; it can significantly inhibit spore germination of all the fungi at 100 to 1500 ppm, it is effective against all the fungi at 1500 ppm. C.<sup>[1]</sup>

1-Corydalmine exhibits potent analgesic activity in preclinical models, it is under development as an oral analgesic agent.<sup>[2]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Acetonitrile-Methanol-10mM Ammonium phosphate (pH3) =10:30:60 ;

Flow rate: 0.8 ml/min;

Column temperature: 25 °C;

The wave length of determination: 230 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Basha S A, Jha R N, Pandey V B, *et al. Mycobiology*, 2007, 35(2):69-71.

[2] Tang X, Di X, Zhong Z, *et al. J.Pharmaceut. Biomed.*, 2016, 128:98-105.

[3] Abdallah I A, Huang P, Liu J, *et al. Biomed. Chromatogr.* , 2016, 9.8.

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