

## 9-Hydroxycanthin-6-one Datasheet

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

### [ Product Information ]

**Name:** 9-Hydroxycanthin-6-one

**Catalog No.:** CFN92126

**Cas No.:** 138544-91-9

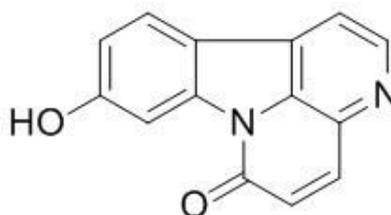
**Purity:** > 95%

**M.F:** C<sub>14</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>

**M.W:** 236.2

**Physical Description:** Yellow powder

**Synonyms:** 9-Hydroxy-6H-indolo[3,2,1-de][1,5]naphthyridin-6-one.



### [ Intended Use ]

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

### [ Source ]

The barks of *Ailanthus altissima*.

### [ Biological Activity or Inhibitors ]

9-Hydroxycanthin-6-one (9-HC-6-one), a  $\beta$ -carboline alkaloid isolated from *E. longifolia*, it

can induce penile erection and delays ejaculation; it may be the active component that contributed to the aphrodisiac effect of *E. longifolia* by antagonizing the smooth muscle tone of corpus cavernosum (CC) as well as seminal vesicle (SV) probably through interfering with Ca<sup>2+</sup> mobilization.<sup>[1]</sup>

9-Hydroxycanthin-6-one is the first Wnt signal inhibitor through activation of glycogen synthase kinase 3 $\beta$  without depending on casein kinase 1 $\alpha$ .<sup>[2]</sup>

9-Hydroxycanthin-6-one has cytotoxic activity against a panel of cell lines comprising a number of human cancer cell types [breast, colon, fibrosarcoma, lung, melanoma, KB and murine lymphocytic leukemia].<sup>[3]</sup>

### **[ Solvent ]**

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

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

Mobile phase: Acetonitrile-0.1%Phosphoric acid H<sub>2</sub>O, 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] Chiou W F, Wu T S. *J. Sex. Med.*, 2011, 9(4):1027-36.

[2] Ohishi K, Toume K, Arai M A, *et al. J.Nat. Prod.*, 2015, 78(5):1139-46.

[3] Kardono L B, Angerhofer C K, Tsauri S, *et al. J. Nat. Prod.*, 1991, 54(5):1360-7.

[4] Wu C, Deng G H, Lin C Z, *et al. China Journal of Chinese Materia Medica*, 2014, 39(9):904-11.

## **[ Contact ]**

**Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)

**Tel:** +86-27-84237783

**Fax:** +86-27-84254680

**Web:** [www.chemfaces.com](http://www.chemfaces.com)

**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)