

## Coronaridine Datasheet

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

### [ Product Information ]

**Name:** Coronaridine

**Catalog No.:** CFN92859

**Cas No.:** 467-77-6

**Purity:** >=95%

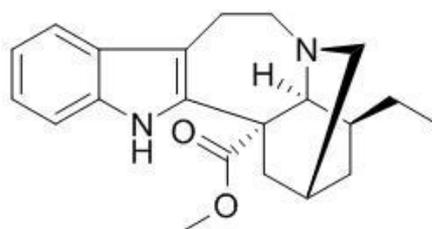
**M.F:** C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub>

**M.W:** 338.4

**Physical Description:** Powder

**Synonyms:** Methyl 19-hydroxyibogamine-18-carboxylate hydrochloride (1:1);

Methyl ibogamine-18-carboxylate; Methyl (2alpha)-ibogamine-18-carboxylate.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Ervatamia divaricata*.

### [ Biological Activity or Inhibitors ]

Coronaridine and its racemic 18-methoxylated analog, 18-methoxycoronaridine reveal a potent leishmanicide effect against *Leishmania amazonensis*, a causative agent of cutaneous and diffuse cutaneous leishmaniasis in the New World.<sup>[1]</sup>

Coronaridine has cytotoxicity and genotoxicity, it can induce apoptosis in cell lines 3T3 and Hep-2 tumor cell line and cause minimal DNA damage in the Hep-2 tumor cell line.<sup>[2]</sup>

Coronaridine can inhibit the Wnt signaling pathway by decreasing  $\beta$ -catenin mRNA expression in SW480 colon cancer cells. <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] Delorenzi J C, Freire-De-Lima L, Gattass C R, *et al. Antimicrob. Agents Chemother.*, 2002, 46(7):2111-5.

[2] Fraga R W, Eduardo F L, Vanessa C, *et al. Genet. Mol. Biol.*, 2013, 36(1):105-10.

[3] Ohishi K, Toume K, Arai M A, *et al. Bioorg. Med. Chem. Lett.*, 2015, 25(18):3937-40.

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