

## Rediocide A Datasheet

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

### [ Product Information ]

**Name:** Rediocide A

**Catalog No.:** CFN98341

**Cas No.:** 280565-85-7

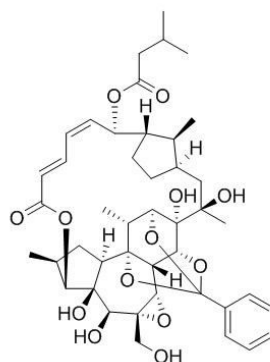
**Purity:** > 95%

**M.F:** C<sub>44</sub>H<sub>58</sub>O<sub>13</sub>

**M.W:** 794.9

**Physical Description:** Powder

**Synonyms:**



### [ Intended Use ]

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

### [ Source ]

The herbs of *Trigonostemon reidioides* (Kurz) Craib.

### [ Biological Activity or Inhibitors ]

Rediocide A, an insecticide, can inhibit calcium mobilization in *Drosophila* G-protein-coupled receptors (GPCR)s other than methuselah, it can induce GPCR desensitization and internalization, and such effects are mediated by the activation of conventional protein kinase C.<sup>[1]</sup>

Rediocides A exhibits potent activity against *D. pteronyssinus* with LC<sub>50</sub> value of 0.78 microg/cm<sup>2</sup>.<sup>[2]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Acetonitrile-H<sub>2</sub>O=70:30;

Flow rate:1.0 ml/min;

Column temperature: 30°C;

The wave length of determination:256 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Cui L, Li J, Xie X. *J. Nat. Prod.*,2012 Jun 22;75(6):1058-62.

[2] Soonthornchareonnon N, Sakayarojkul M, Isaka M, *et al. Chem. Pharm. Bull.(Tokyo)*, 2005 Feb;53(2):241-3.

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