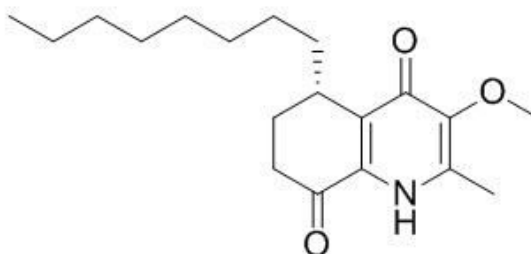


## Antidesmone Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)**[ Product Information ]****Name:** Antidesmone**Catalog No.:** CFN98213**Cas No.:** 222629-77-8**Purity:** > 95%**M.F:** C<sub>19</sub>H<sub>29</sub>NO<sub>3</sub>**M.W:** 319.4**Physical Description:** Oil**Synonyms:** (5S)-3-Methoxy-2-methyl-5-octyl-1,5,6,7-tetrahydro-4,8-quinolinedione.**[ Intended Use ]**

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

**[ Source ]**The barks of *Antidesma membranaceum*.**[ Biological Activity or Inhibitors ]**

Antidesmone is a relative toxic anti-inflammatory drug, it can inhibit inflammation on stimulated macrophages and thereby prevents acute lung injury by regulating MAPK and NF- $\kappa$ B signaling pathways.<sup>[1]</sup>

Antidesmone exhibits potent antitrypanosomal activity against *Trypanosoma cruzi*, the pathogenic agent of Chagas disease.<sup>[2]</sup>

Antidesmone is a selective post-emergent herbicide probe at 300 $\mu$ M by reducing the biomass production of *Physalis ixacarpa* plants, it also behaves as pre-emergent herbicide due to inhibit *Physalis ixacarpa* plant growth about 60%.<sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]**

Not data available.

## **[ Storage ]**

2-8 $^{\circ}$ C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Lu X G, Pu Y X, Kong W G, *et al. Int. Immunopharmacol.*,2017 Apr;**45**:34-42.

[2] Bringmann G, Schlauer J, Rischer H, *et al. Pharm.Pharmacol.Lett.*,2001,2:47-8.

[3] Sampaio O M, Lima M M D C, Veiga T A M, *et al. Pestic. Biochem.Physiol.*,2016 Nov;  
**134**:55-62.

## **[ Contact ]**

### **Address:**

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

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

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

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

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

China

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