

## Harzianic acid Datasheet

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

### [ Product Information ]

**Name:** Harzianic acid

**Catalog No.:** CFN00118

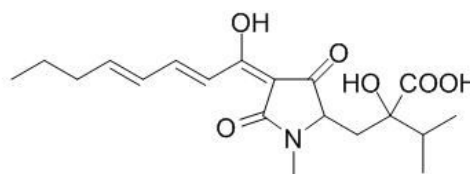
**Cas No.:** 157148-06-6

**Purity:** > 95%

**M.F:** C<sub>19</sub>H<sub>27</sub>NO<sub>6</sub>

**M.W:** 365.42

**Physical Description:** Powder



**Synonyms:** 2-Pyrrolidinepropanoic-acid, 3,5-dioxo- $\alpha$ -hydroxy-4-(1-hydroxy-2,4-octadienylidene)-1-methyl- $\alpha$ -(1-methylethyl)-; 2-Hydroxy-2-({5-hydroxy-1-methyl-4-[(2E,4E)-octa-2,4-dienoyl]-3-oxo-2,3-dihydro-1H-pyrrol-2-yl}methyl)-3-methylbutanoic acid.

### [ Intended Use ]

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

### [ Source ]

The branch of *Broussonetia papyrifera*.



## **[ Biological Activity or Inhibitors ]**

Harzianic acid, an antifungal and plant growth promoting metabolite from *Trichoderma harzianum*; it shows antibiotic activity against *Pythium irregulare*, *Sclerotinia sclerotiorum*, and *Rhizoctonia solani*, it has a plant growth promotion effect at low concentrations.<sup>[1]</sup>

## **[ Solvent ]**

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

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

Mobile phase: 0.1% Formic acid in water- Acetonitrile, gradient elution ;

Flow rate: 0.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Vinale F, Flematti G, Sivasithamparam K, *et al. J. Nat. Prod.*, 2009, 72(11):2032-5.

[2] Vinale F, Manganiello G, Nigro M, *et al. Molecules*, 2014, 19(7):9760-72.

## **[ Contact ]**

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