

## Nortrachelogenin Datasheet

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

### [ Product Information ]

**Name:** Nortrachelogenin

**Catalog No.:** CFN98454

**Cas No.:** 34444-37-6

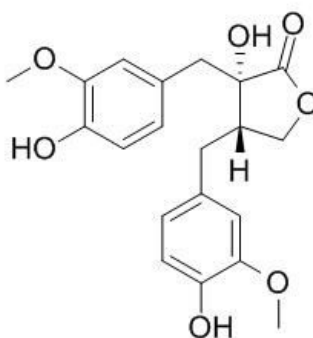
**Purity:** > 95%

**M.F:** C<sub>20</sub>H<sub>22</sub>O<sub>7</sub>

**M.W:** 374.4

**Physical Description:** Powder

**Synonyms:** 3-Hydroxy-3,4-bis(4-hydroxy-3-methoxybenzyl)dihydrofuran-2(3H)-one; 8'-Hydroxymatairesinol.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Trachelospermum jasminoides*.

### [ Biological Activity or Inhibitors ]

(+)-Nortrachelogenin shows effects on the central nervous system producing depression in rabbits.<sup>[1]</sup>

(-)-Nortrachelogenin can induce membrane disruption and caspase-dependent apoptosis.<sup>[2]</sup>

Nortrachelogenin shows anti-plasmodium activity of 14.50 dg/ml.<sup>[3]</sup>

Nortrachelogenin has anti-inflammatory properties.<sup>[4]</sup>

Nortrachelogenin is a novel agent for prostate cancer therapy with ability to inhibit Akt membrane localization and activity as well as the activation of growth factor receptors, thereby efficiently synergizing with tumor necrosis factor-related apoptosis-inducing ligand (TRAIL), exposure.<sup>[5]</sup>

(-)-Nortrachelogenin exerts its antibacterial effect by disorganizing and perturbing the cytoplasmic membrane.<sup>[6]</sup>

(+)-Nortrachelogenin is moderately active against HIV-1 in vitro.<sup>[7]</sup>

Nortrachelogenin shows moderate inhibiting activities on NF- $\kappa$ B signaling pathway induced by TNF $\alpha$ , with the IC<sub>50</sub> value of 49.4  $\mu$ M.<sup>[8]</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] Jaishree V, Badami S. *J. Ethnopharmacol.*,2010, 130(1):103-6.

[2] Lee H, Woo E R, Lee D G. *FEMS Yeast Res.*,2016 May;16(3). pii: fow013.

- [3] Kebenei J S, Ndalut P K, Sabah A O. *Int. J.Appl. Res.Nat.Prod.*,2011,4(3):755-6.
- [4] Laavola M, Leppänen T, Eräsalo H, *et al.Planta Med.*,2017 Apr;83(6):519-26.
- [5] Peuhu E, Paul P, Remes M, *et al. Biochem. Pharmacol.*,2013 Sep 1;86(5):571-83.
- [6] Lee H, Ji Y R, Ryoo Z Y, *et al. Curr. Microbiol.*,2016, 72(1):48-54.
- [7] Ke H, Kobayashi H, Dong A J, *et al. Planta Med.*,2000, 66(06):564-7.
- [8] Zhu C, Jing L, Yu N, *et al. Acta Pharm. Sin.B*, 2013, 3(2):109-12.

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