

## Kaempferol 3-O-arabinoside Datasheet

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

### [ Product Information ]

**Name:** Kaempferol 3-O-arabinoside

**Catalog No.:** CFN97572

**Cas No.:** 99882-10-7

**Purity:** > 98%

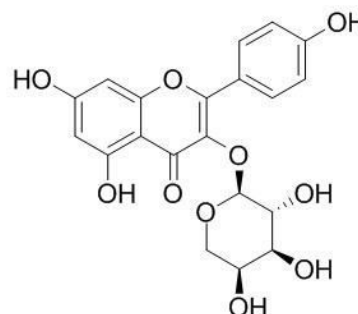
**M.F:** C<sub>20</sub>H<sub>18</sub>O<sub>10</sub>

**M.W:** 418.4

**Physical Description:** Yellow powder

**Synonyms:**

Juglalin; Kaempferol 3-O- $\alpha$ -L-arabinoside; Kaempferol 3-O- $\alpha$ -L-arabinopyranoside.



### [ Intended Use ]

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

### [ Source ]

The leaves of *Persea americana*.

### [ Biological Activity or Inhibitors ]

Kaempferol-3-O- $\alpha$ -D-arabinoside displays cytotoxic and high antioxidant activity.<sup>[1]</sup>

Kaempferol-3-O-arabinoside and kaempferol-3-O-glucoside, the extract/fractions of *P. koraiensis*, can function as antioxidants in biological systems, particularly skin exposed to UV radiation by scavenging ROS, and protect cellular membrane against ROS; they can be applicable to new cosmeceuticals for antioxidant, antiaging, and antibacterial activity.<sup>[2]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Acetonitrile-H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Jeanne E R L, Mouafo Talontsi F, Randriambola L, *et al. Nat. Prod. J.*, 2013, 3: 77-80.

[2] Kim Jung-Eun, Kim Woo-Yeon, Kim Ji-Wook, *et al. Journal of the Society of Cosmetic Scientists of Korea*. 2010, 36(4):303-14.

[3] Fernandes F, Valentão P, Sousa C, *et al. Food Chem.*, 2007, 105(3):1003-10.

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