

## Kaempferide Datasheet

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

### [ Product Information ]

**Name:** Kaempferide

**Catalog No.:** CFN98782

**Cas No.:** 491-54-3

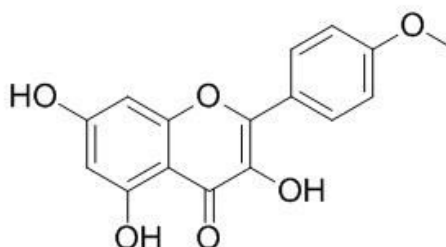
**Purity:** >=98%

**M.F:** C<sub>16</sub>H<sub>12</sub>O<sub>6</sub>

**M.W:** 300.3

**Physical Description:** Yellow powder

**Synonyms:**



### [ Intended Use ]

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

### [ Source ]

The root of *Kaempferia galangal* L.

### [ Biological Activity or Inhibitors ]

Kaempferide, the most active among the four flavonoids isolated and characterized from

Chromolaena odorata, induces apoptosis in cervical cancer cells while being pharmacologically safe.<sup>[1]</sup>

Kaempferide is an effective antioxidant and free radical scavenger, it can protect DNA from radiation induced lesions resulting from radiation exposures under in vitro and ex vivo conditions.<sup>[2]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Methanol- 0.15% Aqueous formic acid solution ( pH= 2.8),gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Nath L R, Gorantla J N, Joseph S M, *et al.Rsc Adv.*, 2015, 5(122):100912-22.

[2] Divakaran S A, Hema P S, Nair M S, *et al. Int.J.Radiat. Res.*,2013, 11(2):81-9.

[3] Xu F Q, Feng Y Y, Yan B L. *J. Med. Plant Res.*, 2014, 8(18):664-8.

## **[ Contact ]**

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