

## Apiin Datasheet

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

### [ Product Information ]

**Name:** Apiin

**Catalog No.:** CFN90165

**Cas No.:** 26544-34-3

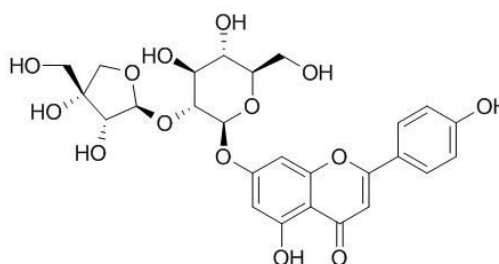
**Purity:** >=98%

**M.F:** C<sub>26</sub>H<sub>28</sub>O<sub>14</sub>

**M.W:** 564.49

**Physical Description:** Yellow powder

**Synonyms:** 7-(2-Apiosylglucosyl)apigenin; 7-[(2-O-D-apio-beta-D-furanosyl-beta-D-glucopyranosyl)oxy]-5-hydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Petroselinum crispum*.

### [ Biological Activity or Inhibitors ]

Apiin has anti-inflammatory properties, it has inhibitory activity in-vitro on iNOS expression and nitrite production when added before LPS stimulation in the medium of J774.A1 cells; the anti-inflammatory properties of it demonstrated in-vivo might have been due to reduction of iNOS enzyme expression.<sup>[1]</sup>

Apiin as a reducing agent, used in biological synthesis of silver and gold nanoparticles.<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: Acetonitrile-H<sub>2</sub>O= 23:77;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 270 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Mencherini T, Cau A, Bianco G, *et al. J. Pharm. Pharmacol.*, 2007, 59(6):891-7.

[2] Kasthuri J, Veerapandian S, Rajendiran N. *Colloid. Surface. B.*, 2009, 68(1):55-60.

[3] Chen L, Wang KQ, Chen J P, *et al. Food & Machinery*, 2009, 25(6):106-8.

## **[ Contact ]**

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