

## Schaftoside Datasheet

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

### [ Product Information ]

**Name:** Schaftoside

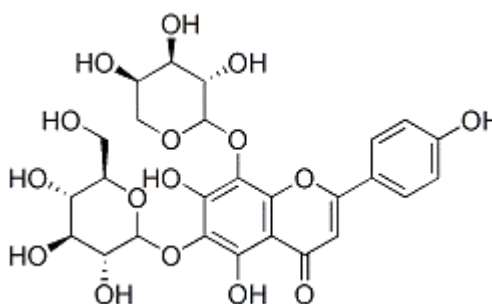
**Catalog No.:** CFN90197

**Cas No.:** 51938-32-0

**Purity:** >=98%

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

**M.W:** 564.49



**Physical Description:** Powder

**Synonyms:** 4',5,7-Trihydroxy-6-(β-D-glucopyranosyl)-8-(α-L-arabinopyranosyl)flavone;

8-(α-L-Arabinopyranosyl)-6-(β-D-glucopyranosyl)-5,7-dihydroxy-2-(4-hydroxyphenyl)-

4H-1-benzopyran-4-one; 6-C-beta-D-Glucosyl-8-C-alpha-L-arabinosylapigenin;

Apigenin 8-C-α-L-arabinoside 6-C-β-D-glucoside.

### [ Intended Use ]

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

### [ Source ]

The herbs of *Desmodium styracifolium* (Osh.) Merr.

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

Schaftosides from rice phloem as feeding inhibitors and resistance factors to brown planthoppers, *Nilaparvata lugens*.<sup>[1]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: Acetonitrile- 0.025M Phosphoric acid H<sub>2</sub>O( adjusted triethylamine to pH = 3.02)=15:85 ;

Flow rate: 0.9 ml/min;

Column temperature:30°C;

The wave length of determination: 270 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Stevenson P C, Kimmins F M, Grayer R J, *et al.* *Proceedings of the 9th International Symposium on Insect-Plant Relationships. Springer Netherlands, 1996:246–9.*

[2] Pu X H, Zhao H, Yuan Q, *et al.* *Chinese Traditional Patent Medicine, 2014, 36(9): 1909-12.*

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