

## Orientin Datasheet

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

### [ Product Information ]

**Name:** Orientin

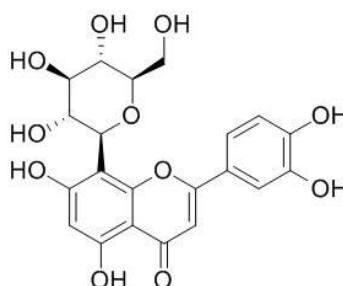
**Catalog No.:** CFN98136

**Cas No.:** 28608-75-5

**Purity:** >=98%

**M.F:** C<sub>21</sub>H<sub>20</sub>O<sub>11</sub>

**M.W:** 448.38



**Physical Description:** Yellow powder

**Synonyms:** 4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-8-b-D-glucopyranosyl-5,7-dihydroxy-; 8-b-D-Glucopyranosyl-3',4',5,7-tetrahydroxyflavone; Luteolin 8-C-glucoside; Luteolin 8-C-b-D-glucopyranoside; Luteolin-8-glucoside; Lutexin.

### [ Intended Use ]

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

### [ Source ]

The herbs of *Polygonum orientale* Linn.

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

Orientin, isolated from the leaf extract of *Ocimum sanctum*, has good antioxidative activity, it can protect mice against radiation injury, free radical scavenging appears to be a likely mechanism of radiation protection.<sup>[1]</sup>

Orientin protects H9c2 cardio-myocytes against I/R-induced apoptosis by modulating the mPTP opening, and this role of orientin may involve the PI3K/Akt signaling pathway.<sup>[2]</sup>

Orientin inhibits adipogenesis in 3T3-L1 cells, it can decrease C/EBP $\alpha$  and PPAR $\gamma$  protein expression level in 3T3-L1 cells. <sup>[3]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Acetonitrile-1% Acetic acid H<sub>2</sub>O=15:85 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 340 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Uma D P, Ganasoundari A, Vrinda B, *et al. Radiat. Res.*, 2000, 154(4):455-60.

[2] Lu N, Sun Y, Zheng X. *Planta Med.*, 2011, 77(10):984-91.

[3] Kim J P, Lee I S, Seo J J, *et al. Phytother. Res.*, 2010, 24(10):1543-8.

[4] Liu Z, Wang L, Li W *et al. China Journal of Chinese Materia Medica*, 2004, 29(11): 1049-51.

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