

## 3'-Hydroxypuerarin Datasheet

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

### [ Product Information ]

**Name:** 3'-Hydroxypuerarin

**Catalog No.:** CFN90680

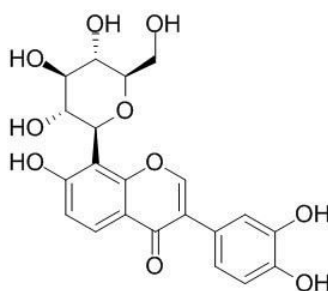
**Cas No.:** 117060-54-5

**Purity:** > 98%

**M.F:** C<sub>21</sub>H<sub>20</sub>O<sub>10</sub>

**M.W:** 432.38

**Physical Description:** Powder



**Synonyms:** 3-(3,4-Dihydroxyphenyl)-8-beta-D-glucopyranosyl-7-hydroxy-4H-benzopyran-4-one; 4H-Benzopyran-4-one, 3-(3,4-dihydroxyphenyl)-8-beta-D-glucopyranosyl-7-hydroxy-; (1S)-1,5-anhydro-1-[3-(3,4-dihydroxyphenyl)-7-hydroxy-4-oxo-4H-chromen-8-yl]-D-glucitol.

### [ Intended Use ]

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

### [ Source ]

The roots of *Pueraria lobata*.

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

3'-Hydroxy puerarin can enhance cellular glucose consumption in insulin resistant adipocytes both in basic and insulin stimulation states, decrease the production of FFA, and up-regulate the expression of PPAR $\gamma$  gene, but show no effect on the expression of PPAR $\gamma$  gene; suggests that 3'-hydroxy puerarin can improve the insulin resistance via up-regulating the expression of PPAR $\gamma$ .<sup>[1]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: 0.5% Acetic acid in water- 0.5% Acetic acid in acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 250 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wang X K, Liu Q X, Ye K H, *et al. Chinese Traditional & Herbal Drugs*, 2014, 45(16): 2352-7.

[2] Wang F, Yang X. *Chinese Journal of Pharmaceutical Analysis*, 2011, 31(9):1626-30.

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