

## Ononin Datasheet

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

### [ Product Information ]

**Name:** Ononin

**Catalog No.:** CFN99136

**Cas No.:** 486-62-4

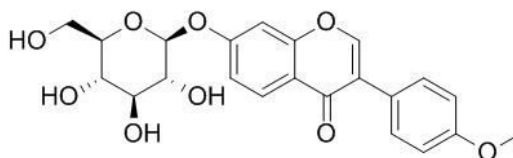
**Purity:** > 98%

**M.F:** C<sub>22</sub>H<sub>22</sub>O<sub>9</sub>

**M.W:** 430.4

**Physical Description:** Powder.

**Synonyms:** Glucosyl-7-O-Formononetin; 4',7-Dihydroxy-7-O-Glucosylisoflavone;  
Formononetin-7-glucoside.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Pharmaceutical Intermediates;
6. Others.

### [ Source ]

The herb of *Ononis natrix* L.

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

Ononin, an isoflavonoid, was isolated from the soils of cultivated areas associated with the perennial weed, *Pluchea lanceolata*, aqueous solutions of this compound can significantly inhibit root and shoot growth of mustard at  $1 \times 10^{-4}$  M,  $5 \times 10^{-4}$  M, and  $1 \times 10^{-3}$  M. [1]

Ononin has weak DPPH-free radical and the superoxide anion free radical scavenging capacity.[2]

Ononin, from *Astragalus membranaceus*, has an effect on the expression of HIF-1 in a concentration-dependent manner, low concentration could elevate the expression of HIF-1 while high concentration down-regulated the expression; the study provide reference for the anti-tumor effect of *A. membranaceus* and therapeutic effect of it for other disease.[3]

## **[ Solvent ]**

Pyridine, DMSO, Ethanol, Methanol.

## **[ HPLC Method ]**[4]

Mobile phase: Acetonitrile- 0.1% Formic acid H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 251nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Inderjit, Dakshini K M M. *J. Chem. Ecol.*, 1992, 18(5):713-8.

[2] Yang H, Han K, Wan X C, et al. *J. Anhui Agricul. Universit.*, 2011, 38(2):151-5.

[3] Liang L J, Zhao K J, Dong T X, et al. *China Pharm.*, 2010(47):4422-4.

[4] Zhou Q, Li Y, Dai Y P, *et al. Chinese Trad. Patent Med.*, 2014, 36(8):1674-7.

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