[**Product Information**]

**Name:** Astragaloside II  
**Catalog No.:** CFN99173  
**Cas No.:** 84676-89-1  
**Purity:** > 98%  
**M.F:** C_{43}H_{70}O_{15}  
**M.W:** 827.02  

**Physical Description:** White cryst.  

**Synonyms:** b-D-Glucopyranoside,(3b,6a,16b,20R,24S)-3-[(2-O-acetyl-b-D-xylopyranosyl)oxy]-20,24-epoxy-16,25-dihydroxy-9,19-cyclolanostan-6-yl.

[**Intended Use**]

1. Reference standards;  
2. Pharmacological research;  
3. Food research;  
4. Cosmetic research;  
5. Synthetic precursor compounds;  
6. Intermediates & Fine Chemicals;  
7. Ingredient in supplements, beverages;  
8. Others.

[**Source**]
The root of *Astragalus membranaceus* (Fisch.) Bunge.

**[Biological Activity or Inhibitors]**

Astragaloside II can downregulate the expression of the P-gp and mdr1 gene, suppress phosphorylation of extracellular signal regulated kinase 1/2, p38 and c-Jun N-terminal kinase, suggests that Astragaloside II is a potent multidrug resistance (MDR) reversal agent and may be a potential adjunctive agent for hepatic cancer chemotherapy.\(^1\)

Astragaloside II induces osteogenic activities of osteoblasts through the bone morphogenetic protein-2/MAPK and Smad1/5/8 pathways, it may become a novel candidate that is beneficial for stimulating the osteoblastic activity resulting in bone formation.\(^2\)

Astragaloside II has immunomodulating activity, can trigger T cell activation through regulation of CD45 protein tyrosine phosphatase activity.\(^3\)

Astragaloside II in conjunction with cisplatin can significant reduce cell viability, and arrest in S phase and increased apoptosis, suggests that astragaloside II can be served as autophagy inhibitor which restores chemosensitivity of anticancer agent cisplatin and enhances tumor cell death.\(^4\)

**[Solvent]**

Pyridine, Methanol, Ethanol, Hot water, etc.

**[HPLC Method]**\(^5\)

Mobile phase: Acetonitrile- 0.01 M Phosphate buffer(pH 6.8), gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 205 nm.

**[Storage]**
2-8℃, Protected from air and light, refrigerate or freeze.

[ References ]

[ Contact ]
Address: S5-3 Building, No. 111, Dongfeng Rd., Wuhan Economic and Technological Development Zone, Wuhan, Hubei 430056, China
Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com