

Astragaloside I Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Astragaloside I

Catalog No.: CFN99172

Cas No.: 84680-75-1

Purity: > 98%

M.F: C₄₃H₆₈O₁₆

M.W: 840.99

Physical Description: White cryst.

HO, OH OH OH

Synonyms: β -D-glucopyranoside,(3 β ,6 α ,16 β ,20R,24S)-3-[(2,3-di-O-acetyl- β -D-xylopyran osyl)oxy]-20,24-epoxy-16,25-dihydroxy-14-methyl-9,19-cyclocholestan-6-yl;Cyclosieversi oside B.

[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 I(As-I), one of the main active ingredients in Astragalus membranaceus,

As-I stimulates osteoblast differentiation through the Wnt/β-catenin signaling pathway,

which also activates the BMP pathway and RANK pathway, thus highlighting the As-Ifor

pharmaceutical and medicinal applications such as treating bone disease. [1]

Astragaloside I may protect the cerebral tissue against the free radical damage in

ischemia. [2]

Astragaloside I can inhibit the activation of BV-2 cells induced by LPS through

suppressing the activation of PI3K/Akt/NF-kB pathway, therefore, reduces the nuclear

translocation of phosphorylated NF-kB, leading to the down-regulation of the gene

expressions of TNF- α , i NOS and IL-1 β and thus lessened the production of iNOS, TNF- α

and COX-2 protein. [3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method] [4]

HPLC-ELSD

Mobile phase: Acetonitrile- H2O=91:9;

Flow rate: 1.0 ml/min;

Column temperature: 28 °C;

Drift tube temperature: 65 °C

Flow rate of gas: 0.9L/min.

[Storage]

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

[References]

[1] Cheng X, Wei BF, Sun L, et al. Phytother. Res., 2016,7.

[2] Luo Y M. Chinese Journal of Clinical Neurosciences, 1998(03):146-8.

[3] Liu H S, Li W H, Shen H, et al. China Journal of Traditional Chinese Medicine & Pharmacy, 2016(05).

[4] Qin J P, Yao Y, Li Y, et al. Chinese Traditional Patent Medicine, 2008, 30(10):1468-71.

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