

Silydianin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Silydianin

Catalog No.: CFN90242

Cas No.: 29782-68-1

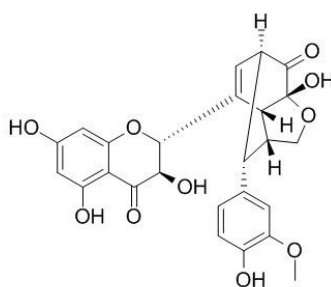
Purity: >=98%

M.F: C₂₅H₂₂O₁₀

M.W: 482.44

Physical Description: Powder

Synonyms: (3R,3aR,6R,7aR,8R)-7a-hydroxy-8-(4-hydroxy-3-methoxyphenyl)-4-[(2R)-3,5,7-trihydroxy-4-oxo-3,4-dihydro-2H-chromen-2-yl]-2,3,3a,7a-tetrahydro-3,6-methano-1-benzofuran-7(6H)-one; 7a-Hydroxy-8-(4-hydroxy-3-methoxyphenyl)-4-(3,5,7-trihydroxy-4-oxo-3,4-dihydro-2H-chromen-2-yl)-2,3,3a,7a-tetrahydro-3,6-methano-1-benzofuran-7(6H)-one.



[Intended Use]

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

[Source]

The herbs of *Silybum marianum* (L.) Gaertn.

[Biological Activity or Inhibitors]

Silydianin regulates caspase-3 activation, affects cell membranes and acts as a free radical scavenger, it may have a possible anti-inflammatory activity.^[1]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[2]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 290 nm.

[Storage]

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

[References]

[1] Zielińskaprzyjemska M, Wiktorowicz K. *Phytother. Res.*, 2006, 20(2):115-9.

[2] Wallace S, Carrier D J, Beitle R R, *et al. Journal of Nutraceuticals Functional & Medical Foods*, 2003, 4(2):37-48.

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