

Cirsilineol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cirsilineol

Catalog No.: CFN90418

Cas No.: 41365-32-6

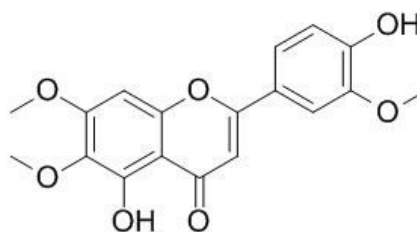
Purity: > 98%

M.F: C₁₈H₁₆O₇

M.W: 344.32

Physical Description: Yellow powder

Synonyms: 5-Hydroxy-2-(4-hydroxy-3-methoxyphenyl)-6,7-dimethoxy-1-benzopyran-4-one.



[Intended Use]

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

[Source]

The herb of *Artemisia vestita* Wall.

[Biological Activity or Inhibitors]

Cirsilineol is a compound isolated from the herb of *Artemisia vestita* Wall (Compositae), it significantly inhibits proliferation of Caov-3, Skov-3, PC3 and Hela cells in a concentration-dependent manner, also dose-dependently induces apoptosis in Caov-3 cells; suggests that the induction of apoptosis via the mitochondrial pathway was involved in the anti-proliferative activity of cirsilineol against cancer cells.^[1]

Cirsilineol has immunomodulatory properties through selective inhibition of IFN-gamma signaling in a murine model of inflammatory bowel disease, suggests that cirsilineol might be potentially useful for treating T-cell-mediated human inflammatory bowel diseases.^[2]

Cirsilineol exhibits potent antibacterial activity against *Helicobacter pylori*, and has weak antibacterial activity against *Escherichia coli* and *Salmonella enteritidis*.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol-Acetonitrile-0.5% Acetic acid H₂O =24:19:57;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 347 nm.

[Storage]

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

[References]

[1] Sheng X, Sun Y, Yin Y, *et al. J. Pharm. Pharmacol.*, 2008, 60(11):1523-9.

[2] Sun Y, Wu X. *Biochem. Pharmacol.*, 2010, 79(2):229-38.

[3] Isobe T, Doe M, Morimoto Y, *et al. Biol. Pharm. Bull.*, 2006, 29(5):1039-41.

[4] Zhang Q W, Zhang Y X, Zhang Y, *et al.* *China journal of Chinese materia medica*, 2002, 27(1):23-5.

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