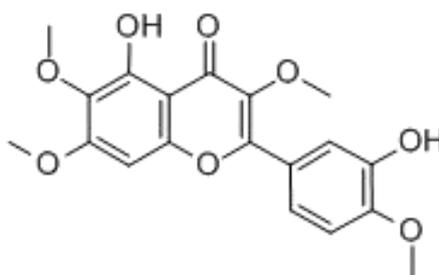


Vitexicarpin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Vitexicarpin**Catalog No.:** CFN98172**Cas No.:** 479-91-4**Purity:** >=98%**M.F:** C₁₉H₁₈O₈**M.W:** 374.34**Physical Description:** Yellow powder

Synonyms: 4H-1-benzopyran-4-one,5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-3,6,7-trimethoxy-; 5-Hydroxy-2-(3-hydroxy-4-methoxyphenyl)-3,6,7-trimethoxy-4H-chromen-4-on; 5-Hydroxy-2-(3-hydroxy-4-méthoxyphényl)-3,6,7-triméthoxy-4H-chromén-4-one; Casticin.

**[Intended Use]**

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

[Source]

The fruits of *Vitex trifolia* L. var. *simplicifolia* Cham.

[Biological Activity or Inhibitors]

Vitexicarpin, isolated from the leaves of *Vitex negundo*, exhibits broad cytotoxicity in a human cancer cell line panel. [1]

Vitexicarpin can inhibit T-lymphocyte proliferation as well as B-lymphocyte proliferation, the inhibitory activity of vitexicarpin is reversible; it also can inhibit the growth of certain cancer cell lines, EL-4 and P815.9 (IC₅₀ = 0.25-0.3 08M); suggests that vitexicarpin may be a potential therapeutic agent involved in inflammatory/immunoregulatory disorders such as rheumatoid arthritis and lymphomas.[2]

Vitexicarpin and viteosin-A block spontaneous contraction of isolated male trachea induced by , however only vitexicarpin is active in a model using sensitized trachea stimulated by up to minimum dose of $1.3 \times 10^{(-5)}$ M; suggests that vitexicarpin is able to block effects of released from sensitized mast cells possibly by stabilizing the mast function.[3]

Vitexicarpin has shown antitumor, anti-inflammatory, and immunoregulatory properties;it also can act as a novel angiogenesis inhibitor, it exerts good antiangiogenic effects by inhibiting vascular-endothelial-growth-factor-(VEGF-) induced endothelial cell proliferation, migration, and capillary-like tube formation on matrigel in a dose-dependent manner, it also has an antiangiogenic mechanism through inhibition of cell cycle progression and induction of apoptosis. [4]

Vitexicarpin inhibits overexpression of GNAO1 and plays a role in gastric cancer cell proliferation and apoptosis, vitexicarpin treated inhibition of GNAO1 can be a potential therapeutic strategy for the treatment of gastric cancer.[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Acetonitrile- 50 mM Potassium dihydrogen phosphate solution (pH value adjusted to 3.0 with phosphoric acid)=50:50;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

- [1] Díaz F, Chávez D, Lee D, *et al. J. Nat. Prod.*, 2003, 66(6):865-7.
- [2] You K M, Son K H, Chang H W, *et al. Planta Med.*, 1998, 64(6):546-50.
- [3] Alam G, Wahyuono S, Ganjar I G, *et al. Planta Med*, 2002, 68(11):1047-9.
- [4] Zhang B, Liu L, Zhao S, *et al. Evid.-Based Compl. Alt.*, 2013, 2013(9):221-9.
- [5] Wang S P, Yu L, Xie J, *et al. Bangl. J. Pharmacol.*, 2015, 10(1):63-8.
- [6] Yang R Z, Zhong M X, Zhong X M. *China Pharmacy*, 2011, 22(47):4489-90.

[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