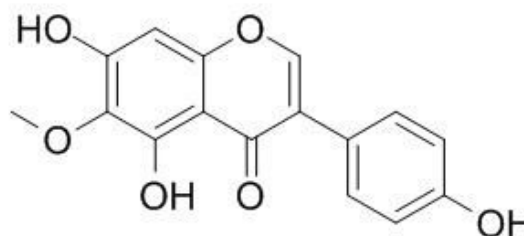


Tectorigenin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Tectorigenin**Catalog No.:** CFN99920**Cas No.:** 548-77-6**Purity:** > 98%**M.F:** C₁₆H₁₂O₆**M.W:** 300.26**Physical Description:** Yellow cryst.**Synonyms:** 5,7-Dihydroxy-3-(4-hydroxyphenyl)-6-methoxy-1-benzopyran-4-one.**[Intended Use]**

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

[Source]The rhizomes of *Iris tectorum*.**[Biological Activity or Inhibitors]**

Tectorigenin (Tg) and tectoridin (Td) are the major compounds isolated from the rhizomes of iridaceous plant *Belamcanda chinensis* which is well known as a Chinese traditional medicine for the treatment of inflammatory diseases; tectorigenin inhibits IFN- γ /LPS-induced inflammatory responses in murine macrophage RAW 264.7 cells, it appears to have the potential to prevent inflammation.^[1]

Tectorigenin and several other phytochemicals downregulate PDEF, PSA and IGF-1 receptor mRNA expression in vitro, the downregulation of PDEF, PSA, hTERT and IGF-1 receptor gene expression by tectorigenin demonstrates the antiproliferative potential of these agents, they may be new and established targets for therapies in prostate cancer.^[2]

Tectorigenin and kaikasaponin III have hypoglycemic and hypolipidemic effects in the streptozotocin-induced diabetic rat and their antioxidant activity.^[3]

Tectorigenin-paclitaxel-induces nuclear translocation of NF κ B and the phosphorylation of I κ B and IKK, suggests that tectorigenin could sensitize paclitaxel-resistant human ovarian cancer cells through inactivation of the Akt/IKK/I κ B/NF κ B signaling pathway, and promise a new intervention to chemosensitize paclitaxel-induced cytotoxicity in ovarian cancer.^[4]

Tectorigenin has inhibitory effect of the activities of plasma ALT, the effects is much more potent than that of a commercially available dimethyl diphenyl bicarboxylate; orally administered tectoridin shows hepatoprotective activity; tectorigenin also protects against the cytotoxicity of HepG2 cells induced by t-BHP, this protection may have originated from the inhibition of apoptosis; tectorigenin may be hepatoprotective and tectoridin should be a prodrug that is transformed to tectorigenin.^[5]

Tectorigenin inhibits the in vitro proliferation and enhances miR-338* expression of pulmonary fibroblasts in rats with idiopathic pulmonary fibrosis.^[6]

[Solvent]

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

[HPLC Method]^[7]

Mobile phase: Methanol- Acetonitrile- H₂O=2:1:2 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 265 nm.

[Storage]

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

[References]

- [1] Pan C H, Kim E S, Sang H J, *et al. Arch. Pharm. Res.*, 2008, 31(11):1447-56.
- [2] Thelen P, Scharf J G, Burfeind P, *et al. Carcinogenesis*, 2005, 26(8):1360-7.
- [3] Lee K T, Sohn I C, Dong H K, *et al. Arch. Pharm. Res.*, 2000, 23(5):461-6.
- [4] Genead R, Fischer H, Hussain A, *et al. Carcinogenesis*, 2012, 33(12):2488-98.
- [5] Lee H U, Bae E A, Kim D H. *J. Pharmacol. Sci.*, 2005, 97(97):541-4.
- [6] Zhang H, Liu X, Shi C, *et al. J. Ethnopharmacol.*, 2010, 131(1):165-73.
- [7] Zhao N, Liu D, Wang Y P, *et al. J. Pharm. Practice*, 2012, 3.

[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