

Bilobetin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Bilobetin

Catalog No.: CFN98846

Cas No.: 521-32-4

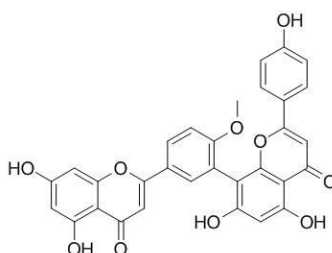
Purity: >=98%

M.F: C₃₁H₂₀O₁₀

M.W: 552.48

Physical Description: Yellow powder

Synonyms: 4H-1-benzopyran-4-one, 8-[5-(5,7-dihydroxy-4-oxo-4H-1-benzopyran-2-yl)-2-methoxyphenyl]-5,7-dihydroxy-2-(4-hydroxyphenyl)-.



[Intended Use]

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

[Source]

The leaves of *Ginkgo biloba* L.

[Biological Activity or Inhibitors]

Bilobetin treatment ameliorates hyperlipidaemia, lipotoxicity and insulin resistance in rats by stimulating PPAR α -mediated lipid catabolism, PKA activation is crucial for this process.^[1]

Bilobetin exhibits a significant antifungal activity against *fungi Alternaria alternata*, *Fusarium culmorum*, *Cladosporium oxysporum* with values of ED₅₀ 14, 11 and 17 microM respectively; it completely inhibits the growth of germinating tubes of *Cladosporium oxysporum* and *Fusarium culmorum* at a concentration 100 microM.^[2]

Bilobetin can inhibit nitric oxide(NO) production from lipopolysaccharide (LPS)-induced RAW 264.7 cells at >10 microM, inhibition of NO production is mediated by suppression of iNOS enzyme induction but not by direct inhibition of iNOS enzyme activity, inhibition of NO production by it may contribute, at least in part, to its anti-inflammatory and immunoregulating potential in vivo. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol-(Tetrahydrofuran-water-formic acid=34:65:1),gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 350 nm.

[Storage]

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

[References]

[1] Kou X H, Zhu M F, Chen D, *et al. Brit. J.Pharmacol.*, 2012, 165(8):2692-706.

[2] Krauze-Baranowska M, Wiwart M. *Zeitschrift für Naturforschung C*, 2012, 58(1-2):65-9.

[3] Cheon B S, Kim Y H, Son K S, *et al. Planta Med.*, 2000, 66(7):596-600.

[4] Chi J D, He X F, Liu A R, *et al. Acta Pharm. Sin.*, 1997, 32(32):625-8.

[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