

Blumeatin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Blumeatin

Catalog No.: CFN99278

Cas No.: 118024-26-3

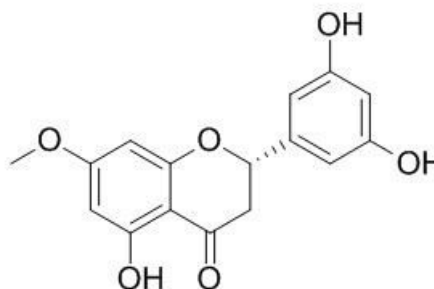
Purity: > 95%

M.F: C₁₆H₁₄O₆

M.W: 302.3

Physical Description: Powder

Synonyms: 3',5,5'-Trihydroxy-7-methoxyflavanone.



[Intended Use]

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

[Source]

The herbs of *Blumea balsamifera*.

[Biological Activity or Inhibitors]

Blumeatin can inhibit the increase of serum alanine aminotransferase (AAT) and liver triglyceride and increased serum triglyceride, beta-lipoprotein, and liver glycogen content in CCl₄-intoxicated rats, and can shorten the pentobarbital sleeping time in CCl₄-intoxicated mice; suggests that blumeatin can protect liver against injury induced by CCl₄ and TAA.^[1]

Blumeatin can promote adipocyte differentiation as characterized by increased triglyceride levels in 3T3L1 cells, also can enhance the accumulation of lipid droplets and induced upregulation of the expression of the adipocyte-specific genes aP2 and GLUT4.^[2]

Blumeatin has antioxidant properties, free radical scavenging activity, and has xanthine oxidase (XO) inhibitory activity.^[3,4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol-0.5% Phosphoric acid H₂O =50:50 ;

Flow rate: 0.9 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Xu S B, Chen W F, Liang H Q, *et al. Acta Pharmacol. Sin.*, 1993, 14(4):376-8.

[2] Zhang L B, Ji J, Lei C, *et al. J. Nat. Prod.*, 2012, 75(4):699-706.

[3] Nessa F, Ismail Z, Mohamed N, *et al. Food Chem.*, 2004, 88(2):243-52.

[4] Nessa F, Ismail Z, Mohamed N. *Pharm. Biol.*, 2010, 48(48):1405-12.

[5] Nessa F, Ismail Z, Karupiah S, *et al. J. Chromatogr. Sci.*, 2005, 43(8):416-20.

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