

Broussonin B Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Broussonin B

Catalog No.: CFN97695

Cas No.: 73731-86-9

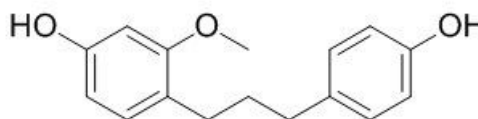
Purity: > 95%

M.F: C₁₆H₁₈O₃

M.W: 258.32

Physical Description: Powder

Synonyms:



[Intended Use]

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

[Source]

The branch of *Broussonetia papyrifera*.

[Biological Activity or Inhibitors]

Broussonins A and B, new phytoalexins from diseased paper mulberry.^[1]

Broussonin B can induce neurite outgrowth in PC-12 cells at concentration of 50 microg/ml, and show moderate inhibitory activities against a chymotrypsin-like activity of the proteasome.^[2]

Broussonin B can significantly inhibit adipocyte differentiation in 3T3-L1 cells as measured fat accumulation using Oil Red O assay. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-0.03%Phosphoric acid H₂O,gradient elution ;

Flow rate: 0.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Takasugi M, Anetai M, Masamune T, *et al. Chem. Lett.*, 1980(3):339-40.

[2] Tsukamoto S, Wakana T, Koimaru K, *et al. Biol. Pharm. Bull.* 2005, 28(9):1798-800.

[3] Ahn J H, Liu Q, Lee C, *et al. Cheminform*, 2012, 43(35):2760-3.

[4] Luo J, Shi S H,Zhang L Q,*et al. Chinese Pharmaceutical Journal*, 2012, 47(22):1856-9.

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