

Bavachalcone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Bavachalcone

Catalog No.: CFN92221

Cas No.: 28448-85-3

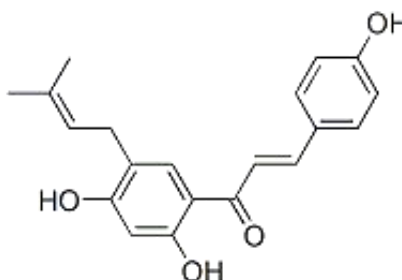
Purity: > 95%

M.F: C₂₀H₂₀O₄

M.W: 324.37

Physical Description: Yellow powder

Synonyms: (2E)-1-[2,4-dihydroxy-5-(3-methylbut-2-en-1-yl)phenyl]-3-(4-hydroxyphenyl)prop-2-en-1-one.



[Intended Use]

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

[Source]

The seeds of *Psoralea corylifolia* L.

[Biological Activity or Inhibitors]

Bavachalcone, isolated from *Psoralea corylifolia*, it inhibits osteoclast differentiation through suppression of NFATc1 induction by receptor activator of nuclear factor kappaB ligand (RANKL), suggests that it may be useful as a therapeutic drug for bone resorption-associated diseases.^[1]

Bavachalcone can protect the endothelial function by increasing AMPK activity and MnSOD expression and reducing mitochondrial oxidative stress.^[2]

Bavachalcone enhances ROR α expression, controls *bmal1* circadian transcription, and depresses cellular senescence in human endothelial cells. ^[3]

Bavachalcone displays the most potent cytotoxic activity against K562 with IC₅₀ value of 2.7 μ M, it inhibits the proliferation of K562 cells by inducing apoptosis.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile - H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 250 nm.

[Storage]

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

[References]

[1] Park C, Lee Y E, Lee M, *et al. Biochem. Pharmacol.*, 2008, 75(11):2175-82.

[2] Dang Y, Ling S, Duan J, *et al. Pharmacology*, 2015, 95(3-4):105-10.

[3] Dang Y, Ling S, Ma J, *et al. Evid.-based Compl. Alt.*, 2015, 2015: 920431.

[4] Wang H M, Zhang L, Liu J, *et al. Eur. J. Med. Chem.*, 2015, 92C(92C):439-48.

[5] Yan C, Wu Y, Weng Z, *et al. J. Anal. Methods. Chem.*, 2015, 2015(23):1-7.

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