[ 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 uM, 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 ]


[ 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