

Morachalcone A Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Morachalcone A

Catalog No.: CFN97241

Cas No.: 76472-88-3

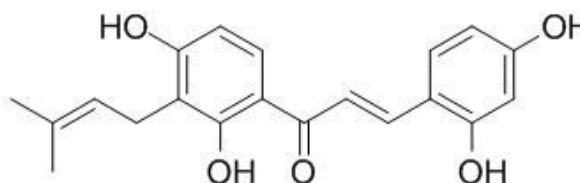
Purity: > 95%

M.F: C₂₀H₂₀O₅

M.W: 340.4

Physical Description: Yellow powder

Synonyms: (2E)-1-[2,4-Dihydroxy-3-(3-methyl-2-buten-1-yl)phenyl]-3-(2,4-dihydroxyphenyl)-2-propen-1-one; 2,4,2',4'-Tetrahydroxy-3'-prenylchalcone.



[Intended Use]

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

[Source]

The roots of *Morus alba*.

[Biological Activity or Inhibitors]

Morachalcone A exhibits protective effects on HT22-immortalized hippocampal cells against glutamate-induced oxidative stress, with EC₅₀ values of 35.5±2.1 uM.^[1]

Morachalcone A exhibits potent inhibitory activity on nitric oxide production in RAW264.7 LPS-activated mouse macrophage cells with IC₅₀ value of 16.4 microM.^[2]

Morachalcone A displays significant tyrosinase inhibitory activity (IC₅₀, 0.013 uM).^[3]

Morachalcone A exerts strong pancreatic lipase inhibition with IC₅₀ value of 6.202uM.^[4]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Seo K H, Lee D Y, Jeong R H, *et al. Journal of Medicinal Food*,2015,18(4):403-8.

[2] Han A R, Kang Y J, Windono T, *et al. Journal of Natural Products*, 2006, 69(4):719-21.

[3] Nguyen N T, Mai H K N, Hai X N, *et al. Journal of Natural Products*, 2012, 75(11):1951-5.

[4] Ji Y J, Yang H J, Kim S B, *et al.Bioorg. Med. Chem. Lett.*,2015 Jun 1;25(11):2269-74.

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