

Methylophiopogonanone B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Methylophiopogonanone B

Catalog No.: CFN98596

Cas No.: 74805-91-7

Purity: >=98%

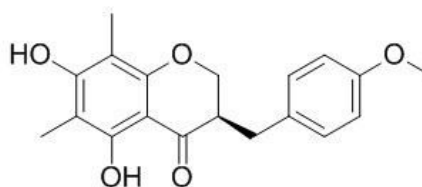
M.F: C₁₉H₂₀O₅

M.W: 328.36

Physical Description: Yellow powder

Synonyms: (3R)-2,3-Dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-4

H-1-benzopyran-4-one; NE-IV; R-Methylophiopogonanone B; 8-Methylophiopogonanone B.



[Intended Use]

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

[Source]

The roots of *Ophiopogon japonicus*.

[Biological Activity or Inhibitors]

Methylophiopogonanone B and centaureidin can inhibit melanosome transfer to keratinocytes as well as melanocyte dendrite outgrowth, they also suppress pigmentation in a three-dimensional skin culture model through the inhibition of melanocyte dendrite outgrowth, they could result in the creation of very unique cosmetic products that would precisely control the darkening or lightening of skin tone. ^[1]

Methylophiopogonanone B appears to induce Rho activation, resulting in actin cytoskeletal reorganization, including dendrite retraction and stress fiber formation.^[2]

Methylophiopogonanone B has inhibition of hypoxia-inducible factor (HIF)-1 alpha activity.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H₂O=55:45;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 298 nm.

[Storage]

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

[References]

[1] Tada A, Kanamaru A, Ito Y. *Int.J. Cosmetic Sci.*, 2006, 28(2):148-148.

[2] Ito Y, Kanamaru A, Tada A. *Mol. Cell. Biochem.*, 2007, 297(1-2):121-9.

[3] Fujii M, Egawa K, Hirai Y, *et al. Heterocycles*, 2009, 78(8):2061-5.

[4] Chen Y G, Dai J D, Gu H F. *Chinese Traditional & Herbal Drugs*, 2007, 38(11):1640-3.

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