

(-)-Maackiain Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: (-)-Maackiain

Catalog No.: CFN98030

Cas No.: 2035-15-6

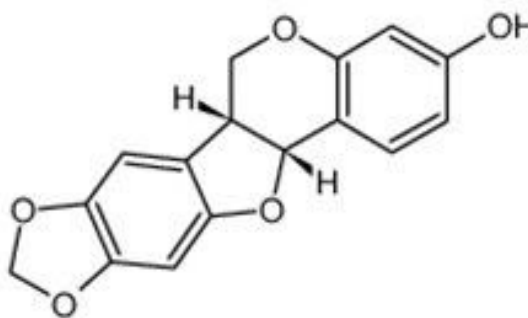
Purity: > 95%

M.F: C₁₆H₁₂O₅

M.W: 284.3

Physical Description: Powder

Synonyms: (6aR,12aR)-6a,12a-Dihydro-6H-[1,3]dioxolo[4',5':5,6]benzofuro[3,2-c]chromen-3-ol.



[Intended Use]

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

[Source]

The flowers of *Maackia amurensis* Rupr.et Maxim.

[Biological Activity or Inhibitors]

(-)-Maackiain is a phytoalexin.^[1]

(-)-Maackiain, pinosylvins and dehydroloroglossol show significant growth inhibitory action on the growth of the human lymphoblastoid cell lines Molt and Raji.^[2]

(-)-Maackiain is a Kujin-derived anti-allergic compound that suppresses the up-regulation of the histamine H1 receptor (H1R) gene.^[3]

Maackiain shows a strong larvicidal effect against 4th instar larvae of *Aedes aegypti* ($LC_{50}=21.95\pm1.34\mu\text{g/mL}$).^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.1% Acetic acid in water- Acetonitrile, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 25°C;

The wave length of determination: 310 nm.

[Storage]

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

[References]

[1] Matthews D E, Weiner E J, Vanetten H D. *Plant Physiol.*, 1987 Feb; 83(2):365-70.

[2] Skinnider L, Stoessl A. *Experientia*, 1986 May 15; 42(5):568-70.

[3] Yuki N, Hiroyuki M, Takeyasu O, et al. *J. Biol. Chem.*, 2015, 290(45):27393-402.

[4] Bezerra-Silva P C, Santos J C, Santos G K, et al. *Exp. Parasitol.*, 2015 Jun; 153:160-4.

[5] Liu J C, Lu S H, Xie W, et al. *Chinese Journal of Pharmaceutical Analysis*, 2015, 35(1): 121-4.

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