

Dihydromorin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Dihydromorin

Catalog No.: CFN99854

Cas No.: 18422-83-8

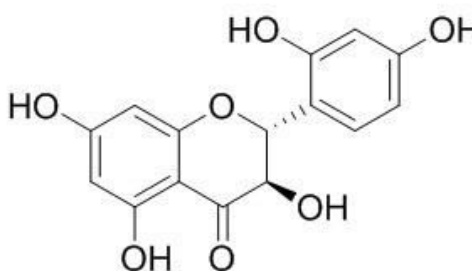
Purity: >=98%

M.F: C₁₅H₁₂O₇

M.W: 304.3

Physical Description: Powder

Synonyms: (2R,3R)-2-(2,4-Dihydroxyphenyl)-3,5,7-trihydroxy-2,3-dihydro-4H-chromen-4-one.



[Intended Use]

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

[Source]

The herbs of *branch of Morus alba L.*

[Biological Activity or Inhibitors]

trans-Dihydromorin is an effective hypopigmenting agent in normal skin cells, hypopigmenting agents effective in melanoma system may not be effective on normal melanocytes, indicating that a non-tumor melanocyte system is more suitable for the screening of hypopigmenting agents.^[1]

Dihydromorin shows strong mushroom inhibitory activity with IC₅₀ values lower than 50 microM, more potent than (IC₅₀ = 71.6 microM), it may be as an antibrowning agent in food systems.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-0.1%Phosphoric acid H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Hu S, Zheng Z, Zhang X, *et al. J. Funct. Foods*, 2015,13:375-83.

[2] Zheng Z P, Cheng K W, To J T, *et al. Mol. Nutr. Food Res.*, 2008,52(12):1530-8.

[3] Li Z Y. *Liaoning University Of Traditional Chinese Medicine*, 2009.

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