

Hispidin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Hispidin

Catalog No.: CFN92660

Cas No.: 56070-89-4

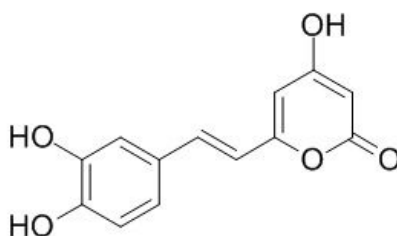
Purity: > 95%

M.F: C₁₆H₁₆O₅

M.W: 288.3

Physical Description: Powder

Synonyms: 6-(3,4-Dihydroxystyryl)-4-hydroxy-2-pyrone; 6-[(1E)-2-(3,4-Dimethoxyphenyl)ethenyl]-4-methoxy-2H-pyran-2-one.



[Intended Use]

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

[Source]

The roots of *Piper methysticum*.

[Biological Activity or Inhibitors]

Hispidin from the mycelial cultures of *Phellinus linteus*, is a beta-secretase (BACE1) inhibitor.^[1]

Hispidin is an antioxidant, it can inhibit 22.6 and 56.8% of the super oxide anion radical, 79.4 and 95.3% of the hydroxyl radical, and 28.1 and 85.5% of the DPPH radical at 0.1 and 1.0 mM, respectively.^[2]

Hispidin has cytotoxic (between 10^{-3} mol/L and 10^{-7} mol/L) toward normal human MRC-5 fibroblasts, human cancerous keratinocytes (SCL-1 cell line), and human cancerous pancreatic duct cells (Capan-1 cell line).^[3]

Hispidin protects against hydrogen peroxide-induced oxidative stress in pancreatic MIN6N β -cells in diabetes.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.1% Formate in ultrapure water- Acetonitrile, gradient elution ;

Flow rate: 0.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Park I H, Jeon S Y, Lee H J, *et al. Planta Med.*, 2004, 70(2):143-6.

[2] Park I H, Chung S K, Lee K B, *et al. Arch. Pharm. Res.*, 2004, 27(6):615-8.

[3] Gonindard C, Bergonzi C, Denier C, *et al. Cell Biol. Toxicol.*, 1997, 13(3):141-53.

[4] Lee J H, Lee J S, Kim Y R, *et al. J. Med. Food*, 2011, 14(11):1431-8.

[5] Jeon Y E, Lee Y S, Lim S S, *et al. J Korean Soc Appl.Bi.*, 2009, 52(5):472-9.

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