



5,7-Dihydroxychromone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 5,7-Dihydroxychromone

Catalog No.: CFN97761

Cas No.: 31721-94-5

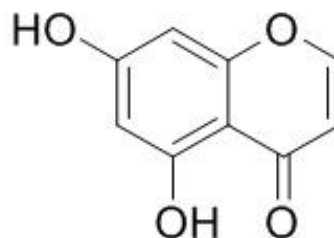
Purity: > 98%

M.F: C₉H₆O₄

M.W: 178.14

Physical Description: Powder

Synonyms: 5,7-Dihydroxy-4-chromone; 5,7-Dihydroxy-4H-chromen-4-one; 5,7-Dihydroxy-γ-chromene-4-one.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Aromatics;
8. Others.

[Source]

The bark of *Garcinia cambogia*.

[Biological Activity or Inhibitors]

5,7-Dihydroxychromone (DHC) can inhibit the radial growth of cultures of the soil pathogenic fungi *Rhizoctonia solani* and *Sclerotium rolfsii* with I_{50} (the concentrations of DHC required to inhibit growth 50%) values of 18 and 26 μ M, respectively; radicle elongation of velvetleaf, corn, peanut, and wheat was inhibited by DHC with I_{50} values of 30, 50, 65 and 200 μ M, respectively; suggests that a role for DHC released from peanut shells in suppressing pathogenic fungal infection and competing plant growth but not for *Bradyrhizobium* growth promotion.^[1]

5,7-Dihydroxychromone has neuroprotection against 6-OHDA-induced oxidative stress and apoptosis in SH-SY5Y cells by activation of the Nrf2/ARE pathway, this finding will give an insight that activating Nrf2/ARE signal could be a new potential therapeutic strategy for neurodegenerative disease.^[2]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone.

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.5% Aqueous acetic acid, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 260 nm.

[Storage]

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

[References]

[1] Vaughn S F. *J. Chem. Ecol.*, 1995, 21(2):107-15.

[2] Dong-Woo Kim, Kyoung-tae Lee, Jaeyoung Kwon, *et al. Life Sci.*, 2015, 130:25-30.

[3] Ren D M, Qu Z, Wang X N, *et al. J. Pharm. Biomed.* , 2008, 48(5):1441-5.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com