

Chryso splenol D Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Chryso splenol D

Catalog No.: CFN99622

Cas No.: 14965-20-9

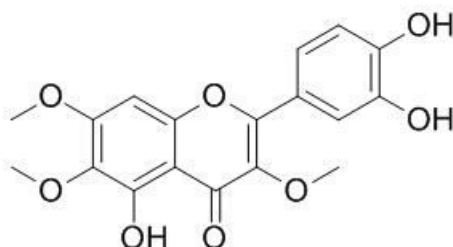
Purity: > 95%

M.F: C₁₈H₁₆O₈

M.W: 360.3

Physical Description: Yellow powder

Synonyms: 2-(3,4-Dihydroxyphenyl)-5-hydroxy-3,6,7-trimethoxy-4H-1-benzopyran-4-one; 3,6,7-Trimethoxy-3',4',5-trihydroxyflavone; 7-Methylaxillarin; Quercetagenin 3,6,7-triMethyl ether.



[Intended Use]

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

[Source]

The herbs of *Artemisia annua* L.

[Biological Activity or Inhibitors]

Chryso splenol D can suppress lipopolysaccharide (LPS)-induced release of IL-1 beta, IL-6 and MCP-1, inhibit cell migration, and reduce LPS-induced IκB and c-JUN phosphorylation in Raw264.7 cells, thus, it can inhibit inflammation in vitro and in vivo.^[1]

Chryso splenol D, artemetin, and chryso splenetin have IC₅₀ values at 2.4 - 6.5 × 10⁽⁻⁵⁾M against *P. falciparum* in vitro.^[2]

Chryso splenol D exerts its anti-proliferative effect on tsFT210 cells through inhibiting cell cycle and inducing apoptosis, it may as a new cell cycle inhibitor. ^[3]

Chryso splenol-D displays antibacterial and antifungal activities.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 345 nm.

[Storage]

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

[References]

[1] Li Y J, Guo Y, Yang Q, *et al. Toxicol. Appl. Pharm.*, 2015, 286(3):151-8.

[2] Liu K C, Yang S L, Roberts M F, *et al. Plant Cell Rep.*, 1992, 11(12):637-40.

[3] Li W X, Cui C B, Cai B, *et al. J. Asian Nat. Prod. Res.*, 2005, 7(4):615-26.

[4] Wang Y, Hamburger M, Gueho J, *et al. Phytochemistry*, 1989, 28(9):2323-7.

[5] Olszewska M A, Gudej J. *J. Pharmaceut. Biomed.*, 2009, 50(5):771-7.

[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