

Physcion Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Physcion

Catalog No.: CFN98848

Cas No.: 521-61-9

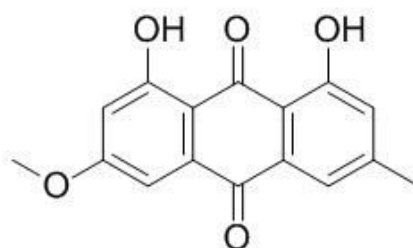
Purity: 98%

M.F: C₁₆H₁₂O₅

M.W: 284.3

Physical Description: Yellow powder

Synonyms: 1,8-Dihydroxy-3-methoxy-6-methylantraquinone; Emodin-3-methyl ether.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The herb of *Rumex obtusifolius* L.

[Biological Activity or Inhibitors]

Physcion is an anthraquinone from rhubarb (rhizomes of *Rheum tanguticum*), has

anti-inflammatory, hepatoprotective, antifungal, and anti-cancer activities; Physcion has anti-proliferative activity might via the induction of G0/G1 cell cycle arrest and apoptosis in human breast cancer cells.^[1]

Physcion is the extract of the plant *Baill*, is highly active against plant powdery mildew.^[2]

Physcion could be a potential candidate in the field of anticancer drug discovery against human cervical cancer, could significantly induce cell apoptosis through down-regulating of Bcl-2 expression, up-regulating of Bax expression, and activating the caspase-3 pathway.^[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl acetate, Acetone.

[HPLC Method]^[4]

Mobile phase: Methanol-0.1% Phosphoric acid solution=75:25;

Flow rate: 1.0 ml/min;

Column temperature: 30°C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Hong J Y, Chung H J, Song Y B, *et al. Asian Pac. J. Cancer P.*, 2014, 19(4):273-8.

[2] Yang X, Yang L, Wang S, *et al. Pest Manag. Sci.* , 2007, 63(5):511-5.

[3] Wijesekara I, Zhang C, Ta Q V, *et al. Microbiol .Res.* , 2014, 169(4):255-61.

[4] Zhu L, Song Y. *Asia-Pacific Traditional Medicine*, 2013, 9(4):28-30.

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