[ **Product Information** ]

**Name:** Chrysophanol  
**Catalog No.:** CFN98751  
**Cas No.:** 481-74-3  
**Purity:** > 98%  
**M.F:** $C_{15}H_{10}O_4$  
**M.W:** 254.2  

**Physical Description:** White powder  
**Synonyms:** 1,8-Dihydroxy-3-methylanthracene-9,10-dione.

[ **Intended Use** ]

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

[ **Source** ]

The root and rhizome of *Rheum officinale* L.
**[Biological Activity or Inhibitors]**

Chrysophanol has anti-inflammatory activity through the suppression of NF-κB/caspase-1 activation in vitro and in vivo.\[1\]

Chrysophanol induces necrosis through the production of ROS and alteration of ATP levels in J5 human liver cancer cells.\[2\]

Chrysophanol has mild cytotoxicity and anti-diabetic properties, it up to 100 microM exerts mild glucose transport activity and elevates the tyrosine phosphorylation of IR via tyrosine phosphatase 1B inhibition (IC50=79.86 +/-0.12 microM), thus it could play metabolic roles in the insulin-stimulated glucose transport pathway.\[3\]

Chrysophanol and physcion, are main active compounds of the plant Baill, has is active against plant powdery mildew, and physcion is much more bioactive than chrysophanol against these powdery mildews.\[4\]

Chrysophanol can inhibit NALP3 inflammasome activation and ameliorate cerebral ischemia/reperfusion in mice.\[5\]

**[Solvent]**

Chloroform, Dichloromethane, DMSO, Acetone.

**[HPLC Method]**\[6\]

Mobile phase: Methanol : 0.2% Acetic acid H2O=83:17;

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]**


[Contact]

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