LKT Laboratories, Inc.

Chrysophanol

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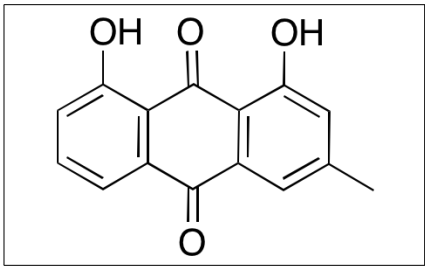
Product Information

Product ID C2970
CAS No. 481-74-3
Chemical Name 1,8-Dihydroxy-3-methyl-9,10-anthracenedione, Chrysophanic acid
Synonym Chrysophanic acid, Turkey rhubarb.



Formula $C_{15}H_{10}O_4$
Formula Wt. 254.24
Melting Point 196°C
Purity ≥98%
Solubility Practically insoluble in water, freely. Soluble in boiling alcohol, benzene or acetone.
Store Temp 4°C
Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
C2970	10 mg
C2970	25 mg
C2970	100 mg

Description Chrysophanol is an anthraquinone originally found in species of *Rheum*. Chrysophanol exhibits anti-inflammatory, antiviral, antibiotic, and anticancer activities. In animal models of cerebral ischemia/reperfusion, chrysophanol inhibits activation of the NALP3 inflammasome, ameliorating stroke-related pathology. Chrysophanol also decreases proliferation of Japanese encephalitis virus in vitro and displays antibacterial activity against *Mycobacterium tuberculosis*. In lung cancer cells, this compound increases levels of ROS and decreases the mitochondrial membrane potential, inducing necrotic cell death.

References

Zhang N, Zhang X, Liu X, et al. Chrysophanol Inhibits NALP3 Inflammasome Activation and Ameliorates Cerebral Ischemia/Reperfusion in Mice. Mediators Inflamm. 2014;2014:370530. PMID: 24876671.

Ni CH, Yu CS, Lu HF, et al. Chrysophanol-induced cell death (necrosis) in human lung cancer A549 cells is mediated through increasing reactive oxygen species and decreasing the level of mitochondrial membrane potential. Environ Toxicol. 2014 May;29 (7):740-9. PMID: 22848001.

Chang SJ, Huang SH, Lin YJ, et al. Antiviral activity of Rheum palmatum methanol extract and chrysophanol against Japanese encephalitis virus. Arch Pharm Res. 2014 Jan 7. [Epub ahead of print]. PMID: 24395532.

Smolarz HD, Swatko-Ossor M, Ginalska G, et al. Antimycobacterial effect of extract and its components from Rheum rhaponticum. J AOAC Int. 2013 Jan-Feb;96(1):155-60. PMID: 23513971.