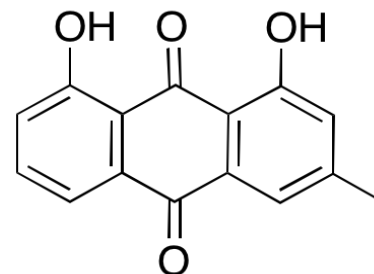


TECHNICAL DATA SHEET

Product name	: Chrysophanol (Rhubarb Extract)
Synonyms	: 2-methyl-4,5-dihydroxyanthraquinone; Chrysophanic acid; 3-methyl-1,8-dihydroxyanthraquinone
CAS No.	: 481-74-3
EINECS/ELINCS	: 207-572-2
Molecular formula	: C ₁₅ H ₁₀ O ₄
Molecular weight	: 254.24 g/mol



Description

Chrysophanol is anthraquinone originally found in in species of Rheum. This natural herbal ingredient is mainly extracted from the root and underground stem (rhizome) of Rhubarb plants.

Chrysophanol is also known as chrysophanic acid, exhibits anti-inflammatory, antiviral, antibiotic, and antitumor activities, and has the potential to be nutraceutical and therapeutic agent for cancer. 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.

Specifications

Purities	90% 98%
Color	Brown to Orange
Form	Crystalline powder
Loss on drying	≤ 2.0%
Heavy metals	≤ 20ppm
Lead	≤ 2ppm
Cadmium	≤ 2ppm
Arsenic	≤ 2ppm
Mercury	≤ 2ppm
Microbials	
Total Plate Count	NMT 1000 cfu/g
Yeast and Mold	NMT 100 cfu/g
Escherichia coli	Negative
Salmonella	Negative
Solubility (in vitro)	Practically in water; Freely soluble in boiling alcohol, benzene or acetone.
Stability	Stable
Category	Aromatics, Pharmaceuticals, Inhibitors
	Intermediates, Fine Chemicals
Incompatibilities	Strong oxidizing agents
Decomposition	Carbon monoxide, Carbon dioxide

Allergement Statements

	Absent	Present
Milk and products thereof	X	
Eggs and products thereof	X	
Fish and products thereof	X	
Crustaceans and products thereof	X	
Tree nuts	X	
Wheat and products thereof	X	
Peanuts and products thereof	X	
Soybeans and products thereof	X	

Applications

Pharmaceuticals

Status

Non GMO product.

Not Irradiated product.

Gluten Free product.

Animal Origin Free product.

Packaging

1kg per foil bag, 25kg per firber drum.

Shelf life and Storage

24months, keep container tightly closed and store in a in cool place, recommended temperature 4°C.