

Physcion

Chemical Properties

CAS No. : 521-61-9

Formula: C₁₆H₁₂O₅

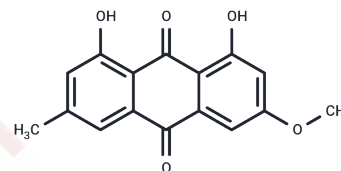
Molecular Weight: 284.26

Storage:

Keep away from direct sunlight, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Physcion (Phycione) (Parietin) is an anthraquinone isolated from traditional Chinese medicine Radix et Rhizoma Rhei, acts as an inhibitor of 6-phosphogluconate dehydrogenase, with an IC ₅₀ and a K _d of 38.5 μM and 26.0 μM, respectively. Physcion (Parietin) exhibits laxative, hepatoprotective, anti-inflammatory, anti-microbial, anti-proliferative and anti-tumor effects.
Targets(IC ₅₀)	Apoptosis, NF-κB, Antibacterial, Antibiotic, Autophagy, Dehydrogenase, TLR
In vivo	Physcion modulates the expression of defense-related genes and enhances the expression of leaf-specific thiol compounds in barley leaves, thereby controlling powdery mildew.

Solubility Information

Solubility	DMF: 1 mg/mL (3.52 mM), Sonication is recommended. H ₂ O: Insoluble, DMSO: 1 mg/mL (3.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.759 mL	3.5179 mL
50 mM	0.0704 mL	0.3518 mL	0.7036 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ma X, et al. Pest Manag Sci, 2010, 66(7), 718-724.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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