

## Hispolon

## Chemical Properties

CAS No. : 173933-40-9

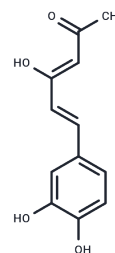
Formula: C<sub>12</sub>H<sub>12</sub>O<sub>4</sub>

Molecular Weight: 220.22

Keep away from moisture

Storage: 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	Hispolon is a polyphenol. Hispolon can be isolated from <i>Phellinus linteus</i> . Hispolon exhibits anticancer, antidiabetic, antiviral, hepatoprotective, antioxidant, and anti-inflammatory activities.
Targets(IC50)	Others, Antibiotic
In vitro	Hispolon (25 and 50 $\mu$ M, 2-8 h) reduces the expression of the G1-S transition-related protein cyclin D4 while increasing the expression of the CDK inhibitor p21. Hispolon (25 and 50 $\mu$ M, 24-72 h) induces G2/M cell cycle arrest, apoptosis, and inhibits cell viability and migration in U87MG cells[2].
In vivo	Hispolon (5 and 10 mg/kg, s.c.) reduces tumor growth in DBTRG xenograft mice[3]. Hispolon (2.5-10 mg/kg, i.p.) attenuates LPS-induced acute lung injury in mice[4].

## Solubility Information

Solubility	DMSO: 112.5 mg/mL (510.85 mM), Sonication and heating to 70°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	4.5409 mL	22.7046 mL	45.4091 mL
5 mM	0.9082 mL	4.5409 mL	9.0818 mL
10 mM	0.4541 mL	2.2705 mL	4.5409 mL
50 mM	0.0908 mL	0.4541 mL	0.9082 mL

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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

- Sarfraz A, et al. Hispolon: A natural polyphenol and emerging cancer killer by multiple cellular signaling pathways. *Environ Res.* 2020 Nov;190:110017.
- Arcella A, et al. Effects of hispolon on glioblastoma cell growth. *Environ Toxicol.* 2017 Sep;32(9):2113-2123.
- Liao KF, et al. Hispolon Induces Apoptosis, Suppresses Migration and Invasion of Glioblastoma Cells and Inhibits GBM Xenograft Tumor Growth In Vivo. *Molecules.* 2021 Jul 26;26(15):4497.
- Huang CY, et al. Attenuation of Lipopolysaccharide-Induced Acute Lung Injury by Hispolon in Mice, Through Regulating the TLR4/PI3K/Akt/mTOR and Keap1/Nrf2/HO-1 Pathways, and Suppressing Oxidative Stress-Mediated ER Stress-Induced Apoptosis and Autophagy. *Nutrients.* 2020 Jun 10;12(6):1742.

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