## (-)-Gallocatechin gallate

Cat. No.:	HY-N0522		
CAS No.:	4233-96-9		
Molecular Formula:	C <sub>22</sub> H <sub>18</sub> O <sub>11</sub>		
Molecular Weight:	458.37		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## **SOLVENT & SOLUBILITY**

In Vitro	DMSO : ≥ 100 mg/mL (218.16 mM) * "≥" means soluble, but saturation unknown.				
Preparing Stock Solutio	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	2.1816 mL	10.9082 mL	21.8164 mL
		5 mM	0.4363 mL	2.1816 mL	4.3633 mL
		10 mM	0.2182 mL	1.0908 mL	2.1816 mL
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (4.54 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 00% (2006 SBE &amp; CD in soline)</li> </ol>				
	Solubility: $\geq$ 2.08 mg/mL (4.54 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.54 mM); Clear solution				

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**Product** Data Sheet





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Cell Assay <sup>[2]</sup>	Cell viability is examined by measuring the capability of cells to metabolize MTT to a purple formazan dye. Human liver
	cancer HepG2 cells are maintained in DMEM medium supplemented with 10% fetal bovine serum, 100 units/mL penicillin,
	and 50 units/mL streptomycin at 37°C in a humidified incubator with 5% CO <sub>2</sub> atmosphere. Cells are seeded in 96-well tissue
	culture plates for 24 h and then incubated with the tested compounds at different concentrations for 72 h. After incubation,
	25 $\mu$ L MTT in 5 mg/mL PBS is added and incubated for 4 h. The medium is aspirated and replaced with 150 $\mu$ L dimethyl
	sulfoxide (DMSO) to dissolve the formazan salt. The color intensity of the formazan solution, which reflects the cell growth
	condition, is measured at 570 nm using a microplate spectrophotometer.
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Jan;11(1):143-155.
- Sci Adv. 2022 Dec 16;8(50):eadd5366.

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## REFERENCES

[1]. Zhang LQ, et al. Accumulation of catechins and expression of catechin synthetic genes in Camellia sinensis at different developmental stages. Bot Stud. 2016 Dec;57(1):31.

[2]. Zhou H, et al. C-geranylated flavanones from YingDe black tea and their antioxidant and α-glucosidase inhibition activities. Food Chem. 2017 Nov 15;235:227-233.

Caution: Product has not been fully validated for medical applications. For research use only.

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