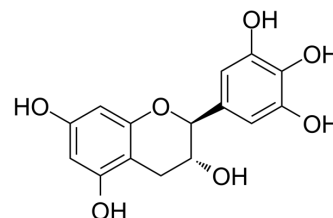


(-)-Gallocatechin

Cat. No.:	HY-N0521
CAS No.:	3371-27-5
Molecular Formula:	C ₁₅ H ₁₄ O ₇
Molecular Weight:	306.27
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (326.51 mM; Need ultrasonic)
H₂O : 1.67 mg/mL (5.45 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2651 mL	16.3255 mL	32.6509 mL
	5 mM	0.6530 mL	3.2651 mL	6.5302 mL
	10 mM	0.3265 mL	1.6325 mL	3.2651 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (8.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(-)-Gallocatechin, an epimer of (-)-Epigallocatechin (EGC), is contained in various tea products. (-)-Gallocatechin has antioxidant activities^{[1][2][3]}.

REFERENCES

- [1]. Takagaki A, et al. Biotransformation of (-)-epigallocatechin and (-)-gallocatechin by intestinal bacteria involved in isoflavone metabolism. Biol Pharm Bull. 2015;38(2):325-30.

[2]. Xu JZ, et, al. Comparison of antioxidant activity and bioavailability of tea epicatechins with their epimers. Br J Nutr. 2004 Jun;91(6):873-81.

[3]. Ikeda I, et, al. Heat-epimerized tea catechins rich in gallocatechin gallate and catechin gallate are more effective to inhibit cholesterol absorption than tea catechins rich in epigallocatechin gallate and epicatechin gallate. J Agric Food Chem. 2003 Dec 3;51(25):7303-7.

[4]. Ahn JW, Kim S, Ko S, Kim YH, Jeong JH, Chung S. Modified (-)-gallocatechin gallate-enriched green tea extract rescues age-related cognitive deficits by restoring hippocampal synaptic plasticity. Biochem Biophys Rep. 2022;29:101201.

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

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