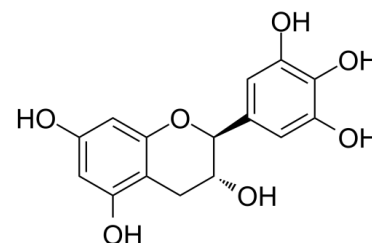


## Data Sheet

<b>Product Name:</b>	(-)-Gallocatechin
<b>Cat. No.:</b>	CS-0009058
<b>CAS No.:</b>	3371-27-5
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>14</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	306.27
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Solubility:</b>	DMSO : 100 mg/mL (326.51 mM; Need ultrasonic); H <sub>2</sub> O : 1.67 mg/mL (5.45 mM; ultrasonic and warming and heat to 60°C)



### BIOLOGICAL ACTIVITY:

(-)-Gallocatechin, an epimer of (-)-Epigallocatechin (EGC), is contained in various tea products. (-)-Gallocatechin has antioxidant activities<sup>[1][2][3]</sup>.

### 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.

### CAIndexNames:

2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-, (2S,3R)-

### SMILES:

O[C@H]1[C@H](C2=CC(O)=C(O)C(O)=C2)OC3=CC(O)=CC(O)=C3C1

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

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