

## **(-) -Epigallocatechin Gallate**

**Catalog No: tcsc1258**



### **Available Sizes**

**Size:** 50mg

**Size:** 100mg



### **Specifications**

**CAS No:**

989-51-5

**Formula:**

$C_{22}H_{18}O_{11}$

**Pathway:**

Autophagy

**Target:**

Autophagy

**Purity / Grade:**

98%

**Solubility:**

DMSO : 70.0 mg/mL (152.7 mM); Ethanol: 83.0 mg/mL (181.1 mM) ; Water : 22.0 mg/mL (48.0 mM)

**Storage Instruction:**

Powder : -20°C for 3 years; Insolvent :-80°C for 12 months

**Alternative Names:**

EGCG;Epigallocatechol Gallate

**Observed Molecular Weight:**

458.37

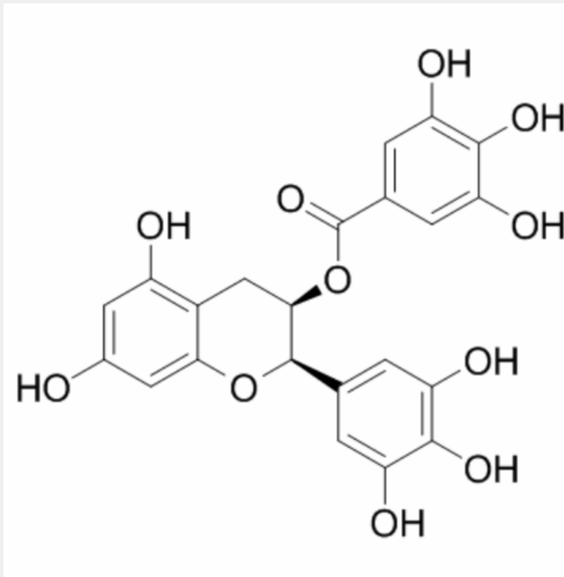
## Product Description

(-)-Epigallocatechin Gallate is an antioxidant polyphenol flavonoid form green tea, and inhibits the activation of **EGFR**, **HER2** and **HER3**, with antitumor activity.

IC50 & Target: EGFR, HER2 and HER3<sup>[1]</sup>

**In Vitro:** (-)-Epigallocatechin Gallate (EGCG) inhibits activation EGFR, HER2 and HER3 in the SW837 human colon cancer cell line. (-)-Epigallocatechin Gallate (10  $\mu$ M) also inhibits cell growth, suppresses activation of EGFR, HER2, and HER3, and causes decrease in the levels of COX-2 and Bcl-xL proteins, and apoptosis after treatment for 96 h<sup>[1]</sup>. (-)-Epigallocatechin Gallate (0-35  $\mu$ g/mL) inhibits the proliferation of colorectal cancer cells. (-)-Epigallocatechin Gallate (35  $\mu$ g/mL) induces apoptosis of colorectal cancer cells<sup>[2]</sup>. (-)-Epigallocatechin Gallate (EGCG; 50, 75 and 100  $\mu$ M) dose-dependently inhibits the growth of HepG2 cells, and induces apoptosis in HepG2 cells<sup>[3]</sup>.

**In Vivo:** (-)-Epigallocatechin Gallate (5, 10, and 20 mg/kg, p.o.) inhibits the growth of orthotopic colorectal cancer cells in mice<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!