

(-) -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

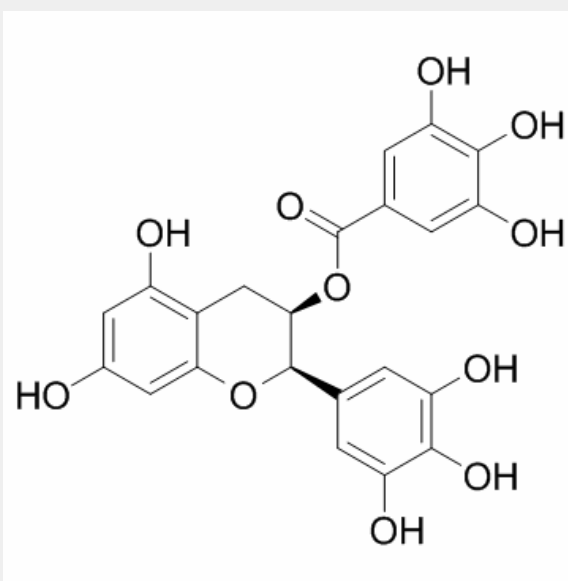
Product Description

(-)-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^[1]

In Vitro: (-)-Epigallocatechin Gallate (EGCG) inhibits activation EGFR, HER2 and HER3 in the SW837 human colon cancer cell line. (-)-Epigallocatechin Gallate (10 μ 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^[1]. (-)-Epigallocatechin Gallate (0-35 μ g/mL) inhibits the proliferation of colorectal cancer cells. (-)-Epigallocatechin Gallate (35 μ g/mL) induces apoptosis of colorectal cancer cells^[2]. (-)-Epigallocatechin Gallate (EGCG; 50, 75 and 100 μ M) dose-dependently inhibits the growth of HepG2 cells, and induces apoptosis in HepG2 cells^[3].

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



Protocol

Preparing Stock Solution	Volume	Mass	1 mg	5 mg	10 mg
	Concentration				
	1mM		2.1816 mL	10.9082 mL	21.8164 mL
	5mM		0.4363 mL	2.1816 mL	4.3633 mL
	10mM		0.2182 mL	1.0908 mL	2.1816 mL

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