

For Research Use Only

# (-)-Epigallocatechin Gallate



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Catalog Number: CM01131

## 产品信息

**Catalog Number:**  
CM01131

**CAS号:**  
989-51-5

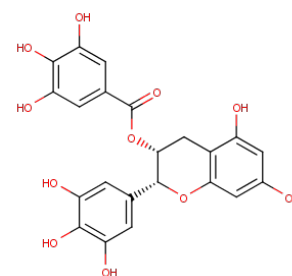
**分子式:**  
C<sub>22</sub>H<sub>18</sub>O<sub>11</sub>

**主要靶点:**  
HIV Protease|Reactive Oxygen Species|Ferroptosis|Autophagy|Mitochondrial Metabolism|Endogenous Metabolite

**主要通路:**  
凋亡|NF-κB信号通路|免疫与炎症|自噬|代谢|微生物学|蛋白酶体

**分子量:**  
458.38

**溶解度:**  
Ethanol:45.8 mg/mL (100 mM),H<sub>2</sub>O:4.6 mg/mL (10 mM)



## 体内活性

Epigallocatechol Gallate (5 and 20 mg/kg, p.o.) inhibits the growth of tumor in the subcutaneous orthotopic transplant model[4].

## 细胞实验

LoVo, SW480, HCT-8, and HT-29 cells are seeded in 96-well plates at a concentration of  $5 \times 10^3$  cells; each cell line is totally seeded in the 12 wells. Complete medium is added to the wells, up to 200  $\mu$ L; the medium contains 0  $\mu$ g/mL, 10  $\mu$ g/mL, 20  $\mu$ g/mL, and 35  $\mu$ g/mL of epigallocatechol gallate. The inhibition rate =  $[1 - (\text{absorbance of Epigallocatechol Gallate group} - \text{absorbance of control group}) / (\text{absorbance of control group} - \text{absorbance of blank control group})] \times 100$ .

## 描述

Epigallocatechol Gallate(EGCG) is an antioxidant polyphenol flavonoid that inhibits telomerase and DNA methyltransferase. EGCG blocks the activation of EGF receptors and HER-2 receptors. EGCG is a phenolic antioxidant found in a number of plants such as green and black tea. It inhibits cellular oxidation and prevents free radical damage to cells.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years

For technical support and original validation data for this product please contact

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