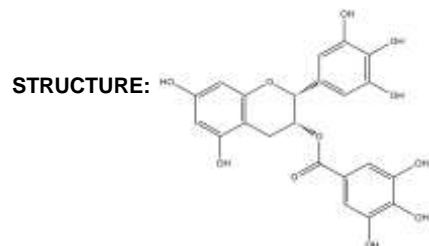


## (-)-Epigallocatechin gallate

**ALTERNATE NAME:** EGCG; (2R,3R)-2-(3,4,5-Trihydroxyphenyl)-3,4-dihydro-1[2H]-benzopyran-3,5,7-triol 3-(3,4,5-trihydroxybenzoate)

**CATALOG #:** 1841- 50

**AMOUNT:** 50 mg



**MOLECULAR FORMULA:** C<sub>22</sub>H<sub>18</sub>O<sub>11</sub>

**MOLECULAR WEIGHT:** 458.37

**CAS NUMBER:** 989-51-5

**APPEARANCE:** Off-white to yellow powder

**SOLUBILITY:** DMSO or EtOH

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20 °C

**DESCRIPTION:** A polyphenol flavonoid that displays antitumor and antioxidant properties. Inhibits telomerase and DNA methyltransferase (DNMT) and blocks the activation of EGF receptors and HER-2 receptors. Also potently and specifically inhibits chymotrypsin-like activity of the proteasome *in vitro* (IC<sub>50</sub> = 86-194 nM) and *in vivo* (IC<sub>50</sub> = 1-10 μM).

**REFERENCE:** Nam, S., *et al.* (2001). *J. Biol. Chem.* **276**, 13322-13330.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

- Ascorbic Acid Assay Kit (**Cat. No. K661-100**)
- Ascorbic Acid Assay Kit II (FRASC) (**Cat. No. K671-100**)
- Catalase Assay kit (**Cat. No. K773-100**)
- Ethanol Assay Kit (**Cat. No. K620-100**)
- Glutathione (GSH/GSSG Total) Assay Kit (**Cat. No. K264-100**)
- Glutathione Colorimetric Assay Kit (**Cat. No. K261-100**)
- Glutathione Fluorometric Assay Kit (**Cat. No. K251-100**)
- Glutathione Peroxidase Assay Kit (**Cat. No. K762-100**)
- Glutathione Reductase Assay Kit (**Cat. No. K761-100**)
- GST Colorimetric Assay Kit (**Cat. No. K263-100**)
- GST Fluorometric Assay Kit (**Cat. No. K263-100**)
- Hydrogen Peroxide Assay Kit (**Cat. No. K265-100**)
- Lactacystin (**Cat. No. 1709-200**)
- Clasto-Lactacystin β-Lactone (**Cat. No. 1710-100**)
- MG-115 (**Cat. No. 1831-1,5**)
- MG-132 (**Cat. No. 1703-5**)
- EZSolution™ MG-132 (**Cat. No. 1791-5**)
- Nitric Oxide Colorimetric Assay Kit (**Cat. No. K263-100**)
- Nitric Oxide Fluorometric Assay Kit (**Cat. No. K252-100**)
- Resveratrol (**Cat. No. 1758-100, 500**)
- SOD Activity Assay Kit (**Cat. No. K335-100**)
- Thioredoxin Reductase Assay Kit (**Cat. No. K763-100**)
- Total Antioxidant Capacity Assay Kit (**Cat. No. K274-100**)
- Uric Acid Assay Kit (**Cat. No. K608-100**)
- Xanthine Oxidase Assay Kit (**Cat. No. K710-100**)