(-)-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

**STRUCTURE:**

![Epigallocatechin gallate structure]

**MOLECULAR FORMULA:** C_{22}H_{18}O_{11}

**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_{50} = 86-194 nM) and in vivo (IC_{50} =1 -10 μM).


**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)