

PRODUCT:

ALTERNATE NAME:

NDGA

Nordihydroguaiaretic Acid; 4,4'-(2,3-dimethyl-1,4-butanediyl)bis-1,2-benzenediol

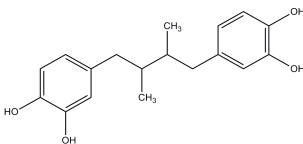
CATALOG #:

2581-100, 500

AMOUNT:

100 mg, 500 mg

STRUCTURE:



MOLECULAR FORMULA:

C₁₈H₂₂O₄

MOLECULAR WEIGHT:

302.40

CAS No.

500-38-9

APPEARANCE:

White to off-white solid

SOLUBILITY:

DMSO (~100 mg/ml) or EtOH (~ 100 mg/ml)

PURITY:

≥97% by HPLC

STORAGE:

Store at -20°C. Protect from air and moisture

DESCRIPTION:

NDGA is a phenolic compound isolated from the creosote bush *Larrea divaricata* that has anti-cancer activities both in vitro and in vivo. NDGA acts as a non-selective lipoxygenase (LO) inhibitor (IC₅₀ values are 3.0-5.0 μM for human platelet 12-LO and 0.91 μM for rabbit reticulocyte 15-LO). Also inhibits IGF-1 and c-erbB2/HER2/neu receptors and suppresses growth in breast cancer cells.

REFERENCES:

Youngren, J.F., *et al.* (2005). *Breast Cancer Res. Treat.* **94**, 37-46.

HANDLING:

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

RELATED PRODUCTS:

- Ascorbic Acid Assay Kit (Cat. No. K661-100)
- Ascorbic Acid Assay Kit II (FRASC) (Cat. No. K671-100)
- Caffeic Acid (Cat. No. 2006-100, 500)
- Carnosic Acid (Cat. No. 2075-5, 25)
- Catalase Assay kit (Cat. No. K773-100)
- Deferoxamine Mesylate (1883-500, 1000)
- (-)-Epigallocatechin gallate (Cat. No. 1841-50)
- FeTPPS (Cat. No. 2065-25, 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)
- Luteolin (Cat. No. 2005-5, 25)
- MnTBAP Chloride (Cat. No. 2058-10, 50)
- MnTMPyp Pentachloride (Cat. No. 2056-10, 50)
- Nitric Oxide Colorimetric Assay Kit (Cat. No. K263-100)
- Nitric Oxide Fluorometric Assay Kit (Cat. No. K252-100)
- Piceatannol (Cat. No. 2072-5, 25)
- Piperlongumine (Cat. No. 1919-10, 50)
- Piperlonguminine (Cat. No. 1988-10, 50)
- Pterostilbene (Cat. No. 2073-5, 25)
- Resveratrol (Cat. No. 1758-100, 500)
- Rhapontigenin (Cat. No. 2074-1, 5)
- Rosmarinic Acid (Cat. No. 1843-50, 250)
- SOD Activity Assay Kit (Cat. No. K335-100)
- Thioredoxin Reductase Assay Kit (Cat. No. K763-100)
- Tiliroside (Cat. No. 1879-1,5)
- Total Antioxidant Capacity Assay Kit (Cat. No. K274-100)
- Trolox (Cat. No. 2076-50, 250)
- Uric Acid Assay Kit (Cat. No. K608-100)
- Xanthine Oxidase Assay Kit (Cat. No. K710-100)

USAGE:

FOR RESEARCH USE ONLY! Not to be used in humans.