

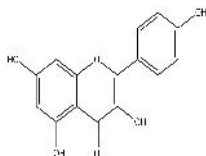
Product: Kaempferol

ALTERNATE NAME: 3,4,5,7-Tetrahydroxyflavone, 3,5,7-Trihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one, Robigenin

CATALOG NO.: 2523-50, 250

AMOUNT: 50 mg, 250 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₅H₁₀O₆

MOLECULAR WEIGHT: 286.24

CAS No. 520-18-3

APPEARANCE: Yellow solid

SOLUBILITY: DMSO (25 mg/ml) or EtOH (20 mg/ml)

PURITY: >95% by HPLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: A naturally occurring polyphenol antioxidant that displays a wide range of pharmacological activities, including antioxidant, anti-inflammatory, antimicrobial, anticancer, cardioprotective, neuroprotective, antidiabetic, anti-osteoporotic, estrogenic/antiestrogenic, anxiolytic, analgesic and antiallergic activities. It reduces cell cycle progression in HT-29 cells. Kaempferol increases chromatin condensation, DNA fragmentation and the number of early apoptotic cells in HT-29 cells in a dose-dependent manner. In addition, kaempferol increases the levels of cleaved caspase-9, caspase-3 and caspase-7 as well as those of cleaved poly (ADP-ribose) polymerase. Moreover, it increases mitochondrial membrane permeability and cytosolic cytochrome c concentrations.

REFERENCES: Lee, H.S., *et al.* (2014). *Int. J. Mol. Sci.* **15**, 2722-2737.

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

03/14

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**)

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