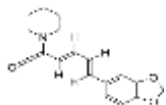


PRODUCT: Piperine

ALTERNATE NAMES: (2E,4E)-5-(1,3-benzodioxol-5-yl)-1-(1-piperidiny)-2,4-pentadien-1-one; N-Piperoylpiperidin; NSC 21727; Bioperine

CATALOG NUMBER: B2086-1G, 5G

AMOUNT: 1 g, 5 g

STRUCTURE:

MOLECULAR FORMULA: C₁₇H₁₉NO₃

MOLECULAR WEIGHT: 285.34

CAS NUMBER: 94-62-2

APPEARANCE: White to off-white solid

SOLUBILITY: DMSO (~10 mg/ml)

PURITY: ≥98% by HPLC

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

DESCRIPTION: Piperine is the primary pungent alkaloid isolated from the fruit of black peppercorns. It displays a variety of therapeutic activities such as anti-oxidant, anti-inflammatory, immunomodulatory, anti-asthmatic, anti-convulsant, anti-mutagenic, antimycobacterial, anti-amoebic, and anti-cancer activities. Piperine affects cytochrome P450 (CYP) isoforms, inhibiting CYP3A species (K_i ~ 5 μM) and increasing expression of CYP1A and CYP2B in liver. It also has a biphasic effect on P-glycoprotein activity.

REFERENCES: McNamara, F.N., *et al.* (2005). *Br. J. Pharmacol.* **144**, 781-790.

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**