

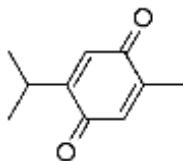
PRODUCT: Thymoquinone

ALTERNATE NAME: 2-Isopropyl-5-methyl-1,4-benzoquinone; NSC 2228

CATALOG #: B2172-500, 1000

AMOUNT: 500 mg, 1 g

STRUCTURE:



MOLECULAR FORMULA: C₁₀H₁₂O₂

MOLECULAR WEIGHT: 164.20

CAS NUMBER: 490-91-5

APPEARANCE: Off-white/yellow/orange solid

SOLUBILITY: DMSO (~14 mg/ml)

PURITY: ≥98%

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

DESCRIPTION: Thymoquinone is a natural phytochemical that displays anti-inflammatory properties, blocking the synthesis of leukotrienes. It inhibits the growth of leukemia cells (IC₅₀ = 1.5 µg/ml), inducing apoptosis by down-regulating the expression of Bcl-2 while up-regulating Bax expression. In addition to blocking cell proliferation and triggering apoptosis, thymoquinone (15 µM) suppresses STAT3-regulated gene expression and prevents angiogenesis.

REFERENCES: Li, F., *et al.* (2010). *Br. J. Pharmacol.* **161**, 541-554.

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**