PRODUCT: Plumbagin

ALTERNATE NAME: 5-Hydroxy-2-methyl-1,4-naphthalenedione

CATALOG #: 2290-50, 250

AMOUNT: 50 mg, 250 mg

STRUCTURE:

MOLECULAR FORMULA: C_{11}H_{8}O_{3}

MOLECULAR WEIGHT: 188.18

CAS NUMBER: 481-42-5

APPEARANCE: Orange red solid

SOLUBILITY: DMSO (~20 mg/ml) or Ethanol (~10 mg/ml)

PURITY: ≥98%

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

DESCRIPTION: A quinonoid constituent isolated from the root of Plumbago zeylanica. Displays anticarcinogenic, antiatherosclerotic, and antimicrobial effects as well as anticancer and antiproliferation properties in a variety of cell lines and animal models. Induces G2/M and autophagy in breast cancer cells by inhibiting Akt/mTOR pathway. Also potently inhibits histone acetyltransferase (HAT) activity in vivo. Plumbagin specifically inhibits p300-mediated acetylation of p53 but not the acetylation by p300/CREB-binding protein associated factor, PCAF, in vivo.


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

RELATED PRODUCTS:
- Anacardic Acid (Cat. No. 1849-5, 25)
- C646, p300/CBP Inhibitor (Cat. No. 1948-1, 5)
- Curcumin, Curcuma longa (High Purity) (Cat. No. 1850-10, 50)
- (-)-Epigallocatechin gallate (Cat. No. 1841-50)
- Garcinol (Cat. No. 2088-5, 25)
- HAT (P/CAF), Human Recombinant (Cat. No. 1137-100)
- HAT Activator, CTPB (Cat. No. 2086-1, 5)
- HAT Activity Colorimetric Assay Kit (Cat. No. K332-100)
- HAT-1 Antibody (Cat. No. 3689-100)
- HAT-2 Antibody (Cat. No. 3692-100)
- HAT-3 Antibody (Cat. No. 3707-100)

USAGE: FOR RESEARCH CH USE ONLY! Not to be used in humans