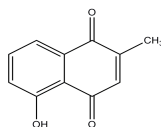


PRODUCT: Plumbagin**ALTERNATE NAME:** 5-Hydroxy-2-methyl-1,4-naphthalenedione**CATALOG #:** 2290-50, 250**AMOUNT:** 50 mg, 250 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₁H₈O₃**MOLECULAR WEIGHT:** 188.18**CAS NUMBER:** 481-42-5**APPEARANCE:** Orange red solid**SOLUBILITY:** DMSO (~20 mg/ml) or Ethanol (~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.

REFERENCE: Kuo, P.I., *et al.* (2006). *Mol. Cancer Ther.* **5**, 3209-3221; Ravindra, K.C., *et al.* (2009). *J. Biol. Chem.* **284**, 24453-24464.

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**