

Plumbagin

Cat. No. CEI-0397

Lot. No. (See product label)

Introduction

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.

Synonyms 5-Hydroxy-2-methyl-1,4-naphthalenedione

Product Information

Appearance Pale yellow solid

CAS No. 481-42-5

Molecular Formula C₁₁H₈O₃

Chemical Name 5-Hydroxy-2-methyl-1,4-naphthalenedione

Molecular Weight 384.27

Purity >98% by TLC

Targets Akt, mTOR

Solubility DMSO (40 mg/ml) or EtOH (25 mg/ml)

Storage and Shipping Information

Storage -20 centigrade

Shipping Conditions Gel pack