

## 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 potentially 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

C<sub>11</sub>H<sub>8</sub>O<sub>3</sub>

#### 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