Creative Enzymes®

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