

 Phone:
 888-558-5227

 651-644-8424

 Fax:
 888-558-7329

 Email:
 getinfo@lktlabs.com

 Web:
 lktlabs.com

Product Information

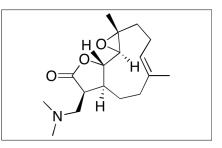
Product ID D336486

CAS No. 870677-05-7

Chemical Name (4E,8S)-8-[(dimethylamino)methyl]-2,3,6,7,7aS,8,10aS,10bR-octahydro -1aR,5-dimethyl-oxireno[9,10]cyclodeca[1,2-b]furan-9(1aH)-one

Synonym Dimethylaminoparthenolide; DMAPT

Formula $C_{17}H_{27}NO_3$ Formula Wt. 293.41 Melting Point 149°C to 143°C Purity \geq 98% Solubility DMSO (10 mg/mL), Ethanol (10 mg/mL).



Bulk quanitites available upon request

Product ID	Size
D336486	5 mg
D336486	10 mg
D336486	25 mg

Store Temp -20°C

Ship Temp Ambient

Description Dimethylaminoparthenolide (DMAPT) is a water soluble parthenolide analog with anticancer activities in various tumor models. It suppresses in vivo tumor growth of tobacco-associated lung and bladder cancer by inhibiting NFkB DNA binding and cellular proliferation. DMAPT inhibits NF-κB and prevents double-stranded DNA break repair. In vitro and in vivo DMAPT decreases activity of STAT3 and MCL-1, decreasing cell proliferation and lung tumor growth.

References Shanmugam R, Kusumanchi P, Appaiah H, et al. A water soluble parthenolide analog suppresses in vivo tumor growth of two tobacco-associated cancers, lung and bladder cancer, by targeting NF-κB and generating reactive oxygen species. Int J Cancer. 2011;128(10):2481-94. PMID: 20669221 PMCID: PMC2982935 DOI: 10.1002/ijc.25587.

Song JM, Qian X, Upadhyayya P, et al. Dimethylaminoparthenolide, a water soluble parthenolide, suppresses lung tumorigenesis through down-regulating the STAT3 signaling pathway. Curr Cancer Drug Targets. 2014 Jan;14(1):59-69. PMID: 24200081.

Estabrook NC, Chin-Sinex H, Borgmann AJ, et al. Inhibition of NF-κB and DNA double-strand break repair by DMAPT sensitizes non-small-cell lung cancers to X-rays. Free Radic Biol Med. 2011 Dec 15;51(12):2249-58. PMID: 22019440.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.