

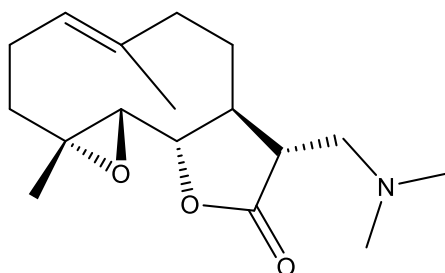
Catalog # 10-2825

DMAPT

870677-05-7

Dimethylamino-parthenolide

Lot # FBA5156



A water soluble analog of the natural plant product parthenolide which suppresses in vivo tumor growth of two tobacco-associated neoplasms, lung and bladder cancer. It inhibits NF κ B and stimulates the formation of reactive oxygen species which induced the activation of JNK¹. In non-small cell lung cancers it inhibits NF κ B and DNA double-strand break repair².

- 1) Shanmugam *et al.* (2011), *A water soluble parthenolide analog suppresses in vivo tumor growth of two tobacco-associated cancers, lung and bladder cancer, by targeting NF κ B and generating reactive oxygen species*; Int. J. Cancer, **128** 2481
- 2) Estrabrook *et al.* (2011), *Inhibition of NF- κ B and DNA double-strand break repair by DMAPT sensitizes non-small-cell lung cancers to X-rays*; Free Radic. Biol. Med., **51** 2249

PHYSICAL DATA

Molecular Weight:	293.41
Molecular Formula:	C ₁₇ H ₂₇ NO ₃
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO, Ethyl Acetate, Ethanol
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO, Ethanol, or Ethyl Acetate may be stored at -20°C for up to 1 month.

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