Purdue Bioscience

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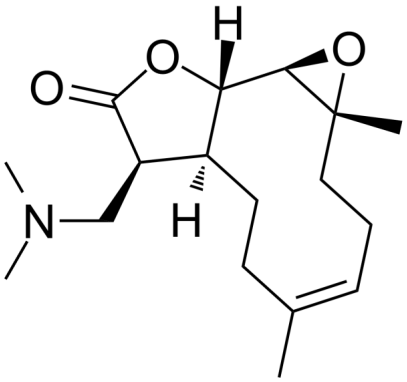
Data Sheet

Product Information

Catalog Number	BP17728
Product Name	DMAPT
Description	DMAPT is a water-soluble analogue of Parthenolide (PTL). It is an orally active NF-κB inhibitor with an LD50 of 1.7 μM on primary acute myeloid leukemia cells.
Targets&IC50	NF-κB:1.7 μM(LD50)
In vitro	DMAPT treatment reduced the constitutive NF-κB binding activity and inhibited the proliferation and viability of PC-3 and DU145 cells. Treatment of PC-3 and DU145 cells with 5 and 4 μM DMAPT, respectively, increased the population doubling time of PC-3 prostate cancer cells from 23.0±5.0 h to 42.0±3.0 h, while the population doubling time of DU145 cells increased from 20.4±2.2 h By 72.5±24.8 hours.
In vivo	DMAPT (100 mg/kg, oral gavage daily for 7 days) treatment can increase the sensitivity of PC-3 tumor xenografts to X-rays. DMAPT (100 mg/kg, 42 to 300 days from birth, oral gavage three times a week) treatment can slow the normal tumor development of TRAMP mice and prolong the reachable prostate tumor time by 20%. DMAPT further reduced the lung tissue transfer area of TRAMP mice to below the water vehicle treatment group (0.10%±0.15 SD, 92% reduction, p = 0.0028).
Synonyms	Dimethylamino Parthenolide
CAS No.	870677-05-7
Chemical Formula	C17H27NO3
Molecular Weight	293.407

Solubility	DMSO: 100 mg/mL (340.83 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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v2 Revision on 12/28/2022