Dimethylamino Parthenolide (DMAPT) is a parthenolide analog with improved solubility and bioavailability showing anticancer activities in various tumor models. It suppresses in vivo tumor growth of tobacco-associated lung and bladder cancer by inhibiting NFκB 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**


