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# Caffeic Acid Phenethyl Ester

National Cancer Institute

## Source

National Cancer Institute. *Caffeic Acid Phenethyl Ester*. NCI Thesaurus. Code C63756.

The phenethyl alcohol ester of caffeic acid and a bioactive component of honeybee hive propolis, with antineoplastic, cytoprotective and immunomodulating activities. Upon administration, caffeic acid phenethyl ester (CAPE) inhibits the activation of nuclear transcription factor NF-kappa B and may suppress p70S6K and Akt-driven signaling pathways. In addition, CAPE inhibits PDGF-induced proliferation of vascular smooth muscle cells through the activation of p38 mitogen-activated protein kinase (MAPK) and hypoxia-inducible factor (HIF)-1alpha and subsequent induction of heme oxygenase-1 (HO-1).