Phenethyl caffeate is a compound found in propolis, a mixture produced by bees. Phenethyl caffeate exhibits anti-inflammatory, anti-atherosclerotic, antioxidative, cardioprotective, anti-obesity, and anticancer chemotherapeutic activities. In vitro, phenethyl caffeate inhibits IL-1β-induced expression of IL-6, MCP-1, and ICAM-1, and suppresses phosphorylation of Akt and NF-κB. In vivo, phenethyl caffeate decreases levels of AST and lactate dehydrogenase and suppresses lipid peroxidation. Phenethyl caffeate also decreases body weight gain and fat mass in animal models fed a high fat diet, potentially by inhibiting adipogenesis. In other animal models, this compound inhibits 5-lipoxygenase and decreases blood pressure, collagen deposition, and other atherosclerotic biomarkers. In animal and cellular models of colorectal cancer, phenethyl caffeate induces apoptosis and inhibits cellular and tumor growth.

References

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