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# Phenprocoumon

National Cancer Institute

## Source

National Cancer Institute. *Phenprocoumon*. NCI Thesaurus. Code C66374.

An orally available, long-acting derivative of coumarin with anticoagulant activity. Upon administration, phenprocoumon inhibits the vitamin K epoxide reductase enzyme; inhibition of this enzyme prevents the formation of the reduced, active form of vitamin K (vitamin KH<sub>2</sub>), which is essential for the carboxylation of glutamate residues of vitamin K-dependent proteins. This prevents the activation of vitamin K-dependent coagulation factors II, VII, IX, and X and the anticoagulant proteins C and S, which abrogates both thrombin production and thrombus formation.