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Acenocoumarol

National Cancer Institute

Source

National Cancer Institute. *Acenocoumarol*. NCI Thesaurus. Code C75152.

A 4-hydroxycoumarin derivative with anticoagulant activity. As a vitamin K antagonist, acenocoumarol inhibits vitamin K epoxide reductase, thereby inhibiting the reduction of vitamin K and the availability of vitamin KH₂. This prevents gamma carboxylation of glutamic acid residues near the N-terminals of the vitamin K-dependent clotting factors, including factor II, VII, IX, and X and anticoagulant proteins C and S. This prevents their activity and thus thrombin formation. Compared to other coumarin derivatives, acenocoumarol has a short half-life.