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Des-Gamma Carboxyprothrombin

National Cancer Institute

Source

National Cancer Institute. *Des-Gamma Carboxyprothrombin*. NCI Thesaurus. Code C101804.

Des-gamma carboxyprothrombin (622 aa, ~70 kDa) is encoded by the human F2 gene. This protein is involved in blood coagulation. This form of prothrombin is not efficiently converted to the active enzyme thrombin because it lacks gamma-carboxyglutamyl residues. These modified glutamyl residues are absent because of either vitamin K deficiency or inhibition of vitamin K activity that, in turn, inhibits the enzyme that carboxylates these residues, vitamin K-dependent gamma-carboxylase.