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Tinzaparin Sodium

National Cancer Institute

Source

National Cancer Institute. *Tinzaparin Sodium*. NCI Thesaurus. Code C60810.

The sodium salt of a low molecular weight heparin (LMWH), obtained by controlled enzymatic depolymerization of heparin from porcine intestinal mucosa, with antithrombotic properties. Tinzaparin is a potent inhibitor of several activated coagulation factors, especially Factors Xa and IIa (thrombin); its primary activity is mediated through the plasma protease inhibitor antithrombin. In addition, this agent may inhibit angiogenesis through: 1) competitive binding of the heparin-binding sites on endothelial cells for the proangiogenic cytokines vascular endothelial growth factor (VEGF) and beta-fibroblast growth factor (beta-FGF) and 2) increasing the release of tissue factor pathway inhibitor (TFPI), a negative regulator of angiogenesis.