
Product Data Sheet

Product Name: Thromboplastin Bovine

Cat. No.: GP26351

Batch No.: 1

Product Data

Purity >98% Source Bovine Lung.

Physical Appearance solid Shipping Condition atRoomtemp.

Synonyms Tissue factor, Coagulation factor III, Thromboplastin, CD142, TF, F3, TFA.

Solubility It is recommended to reconstitute the lyophilized Bovine Thromboplastin in sterile 0.9% NaCl

Formulation The bovine thromboplastin was lyophilized with no additives.

Introduction

Tissue factor is well-known as the main cellular initiator of blood coagulation. The Tissue factor gene encodes coagulation factor III which is a cell surface glycoprotein that enables cells to initiate the blood coagulation cascades, and functions as the high-affinity receptor for the coagulation factor VII. Following vessel injury, the Tissue Factor and Factor VIIa complex activates the coagulation protease cascade, which leads to fibrin deposition and activation of platelets. The ensuing complex presents a catalytic event, which is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Therefore, Tissue factor has a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade. Tissue Factor can also be stimulated by the inflammatory mediators interleukin 1 and TNF, as well as by endotoxin, to appear on monocytes and vascular endothelial cells as a component of cellular immune response. Tissue factor is the only one in the coagulation pathway for which a congenital deficiency has not been described. Certain levels of Tissue Factor are essential for the maintained viability and growth of endothelium and Tissue Factor-expressing tumor cells. Additionally, abnormal Tissue Factor expression inside the vasculature initiates life threatening thrombosis in various diseases, for example sepsis, atherosclerosis, and cancer. Alternative spliced Tissue Factor expression advances tumor growth, and is linked to increased tumor cell proliferation and angiogenesis in pancreatic cancer.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized Bovine Thromboplastin although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution Prothrombin should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles

Background

Thromboplastin bovine native

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