

F3

Recombinant Human Coagulation Factor III His

Catalog No.	CS434A CS434B CS434C	Quantity:	2 µg 10 µg 1 mg
Alternate Names:	Tissue factor, Coagulation factor III, Thromboplastin, CD142, TF, F3, TFA.		
Description:	<p>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.</p> <p>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. Recombinant Human Tissue factor produced in <i>E.coli</i> is single, a non-glycosylated, Polypeptide chain containing 219 amino acids of the extracellular domain (33-251) having a molecular mass of 29.39 kDa and fused with a 4.5 kDa amino-terminal hexahistidine tag. The Tissue factor is purified by proprietary chromatographic techniques</p>		
Physical Appearance:	Sterile Filtered clear solution		
Gene ID:	2152		
Protein Accession No:	P13726		
Source:	<i>E. coli</i>		
Molecular Mass:	29.39 kDa and fused with a 4.5 kDa amino-terminal hexahistidine tag.		
Formulation:	Tissue factor protein is supplied in 22 mM Tris.HCl, pH8.0 + 1 mM EDTA and 50% glycerol.		
Purity:	Greater than 95.0% as determined by SDS-PAGE.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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