

Coagulation Factor III/F3 Protein, Canine (HEK293, His)

Cat. No.:	HY-P700695
Synonyms:	Tissue factor; Coagulation Factor III; TF; Thromboplastin; CD142; F3; FLJ17960; TFA
Species:	Canine
Source:	HEK293
Accession:	Q4W6L5 (T35-E248)
Gene ID:	490153
Molecular Weight:	35-45 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Coagulation Factor III (F3), also known as Tissue Factor (TF), serves as a pivotal initiator of blood coagulation through the formation of a complex with circulating factor VII or VIIa. This [TF:VIIa] complex plays a critical role in activating factors IX or X through specific limited proteolysis, thereby initiating the assembly and propagation of the coagulation protease cascade on the cell surface. Notably, F3 interacts with HSPE, and heparin inhibits this interaction. The interplay between F3 and HSPE promotes the generation of activated factor X and activates coagulation in the presence of activated factor VII, emphasizing F3's central involvement in the regulation of hemostatic processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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