Recombinant Human F5 protein, His-tagged

Cat. No. F5-766H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human F5 aa. (Phe463~Pro715 (Accession # P12259)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Phe463~Pro715
Description	This gene encodes an essential cofactor of the blood coagulation cascade. This factor circulates in plasma, and is converted to the active form by the release of the activation peptide by thrombin during coagulation. This generates a heavy chain and a light chain which are held together by calcium ions. The activated protein is a cofactor that participates with activated coagulation factor X to activate prothrombin to thrombin. Defects in this gene result in either an autosomal recessive hemorrhagic diathesis or an autosomal dominant form of thrombophilia, which is known as activated protein C resistance.
Form	Freeze-dried powder
Molecular Mass	31kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%

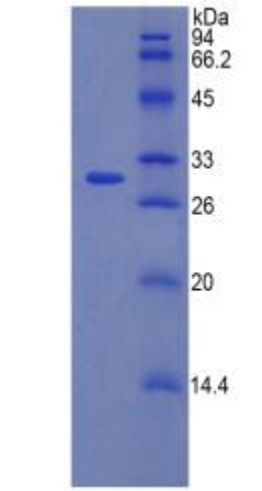
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Characteristic	The isoelectric point is 5.3.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	F5 coagulation factor V [Homo sapiens (human)]
Official Symbol	F5
Synonyms	FVL; PCCF; THPH2; RPRGL1; activated protein c cofactor; coagulation factor V (proaccelerin, labile factor); coagulation factor V jinjiang A2 domain; factor V Leiden; coagulation factor V
Gene ID	2153
mRNA Refseq	NM_000130.4

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Protein Refseq	NP_000121.2
UniProt ID	P12259
SDS-PAGE	

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