

Coagulation factor VII/F7 Protein, Human (His-SUMO)

Cat. No.:	HY-P700565
Synonyms:	Coagulation factor VII; Eptacog alfa; F7; FVII coagulation protein; SPCA
Species:	Human
Source:	E. coli
Accession:	P08709 (A61-R212)
Gene ID:	2155
Molecular Weight:	33 kDa

PROPERTIES

AA Sequence	<p> A N A F L E E L R P G S L E R E C K E E Q C S F E E A R E I F K D A E R T K L F W I S Y S D G D Q C A S S P C Q N G G S C K D Q L Q S Y I C F C L P A F E G R N C E T H K D D Q L I C V N E N G G C E Q Y C S D H T G T K R S C R C H E G Y S L L A D G V S C T P T V E Y P C G K I P I L E K R N A S K P Q G R </p>
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 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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	<p>Coagulation factor VII (F7) plays a crucial role in initiating the extrinsic pathway of blood coagulation. As a serine protease circulating in the blood in its zymogen form, factor VII undergoes activation to factor VIIa through minor proteolysis induced by factor Xa, factor XIIa, factor IXa, or thrombin. In the presence of tissue factor and calcium ions, factor VIIa further catalyzes the limited proteolysis of factor X, converting it to factor Xa. Additionally, in the presence of tissue factor and calcium, factor VIIa is capable of converting factor IX to factor IXa, highlighting its pivotal function in the intricate cascade of coagulation processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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