

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

General Information

Synonyms:	F7;Coagulation factor VII;Serum prothrombin conversion accelerator (SPCA);Proconvertin
Protein Construction:	61-212 aa
Species:	Human
Expression Host:	E. coli
Accession:	P08709
Molecular Weight:	33.0 kDa (predicted)
AA Sequence:	ANAFLEELRPGSLERECKEEQCSFEEAREIFKDAERTKLFWISYSDGDQCASSPCQNGGSKDQLQSYICFCLP AFEGRNCETHKDDQLICVNEGGCEQYCSDHGTGRKRCRCHGYSLLDGVSCTPTVEYPCGKIPILEKRNAS KPQGR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Initiates the extrinsic pathway of blood coagulation. Serine protease that circulates in the blood in a zymogen form. Factor VII is converted to factor VIIa by factor Xa, factor XIIIa, factor IXa, or thrombin by minor proteolysis. In the presence of tissue factor and calcium ions, factor VIIa then converts factor X to factor Xa by limited proteolysis. Factor VIIa will also convert factor IX to factor IXa in the presence of tissue factor and calcium.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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