

Active Recombinant Human PROC Protein

Cat. No. PROC-32H Lot. No. (See product label)

SPECIFICATION

Product Overview	<p>Recombinant Human Activated Protein C produced in CHO is a disulfide-linked homodimeric, glycosylated, polypeptide chain having a molecular mass of 55kDa. Activated Protein C Human Recombinant is a serine protease with the same amino acid sequence and glycosylation sites as the human plasma-derived Activated Protein C. The APC is purified by proprietary chromatographic techniques.</p>
Species	Human
Source	CHO
Protein Length	1-461 aa
Description	<p>Activated Protein C exerts an antithrombotic effect by inhibiting Factors Va and VIIIa. In vitro data indicate that Activated Protein C has indirect profibrinolytic activity through its ability to inhibit plasminogen activator inhibitor-1 (PAI-1) and limiting generation of activated thrombin-activatable-fibrinolysis-inhibitor. Additionally, in vitro data indicate that Activated Protein C may exert an anti-inflammatory effect by inhibiting human tumor necrosis factor production by monocytes, by blocking leukocyte adhesion to selectins, and by limiting the thrombin-induced inflammatory responses within the microvascular endothelium.</p>
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Formulation	Each mg protein contains 7.6 mg sodium chloride, 1.5 mg citrate and 6 mg sucrose.
Solubility	It is recommended to reconstitute the lyophilized Coagulation factor V in sterile 18 MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized Factor V although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution APC should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	PROC protein C (inactivator of coagulation factors Va and VIIIa) [Homo sapiens]
Synonyms	PROC; protein C (inactivator of coagulation factors Va and VIIIa); PC; PROC1; Vitamin K-dependent protein C; Autoprothrombin IIA; Anticoagulant protein C; Blood coagulation factor XIV; Vitamin K-dependent protein C light chain; Vitamin K-dependent protein C heavy chain; Activation peptide; EC 3.4.21.69; protein C; protein C (inactivator of coagulation factors Va and VIIIa)
Gene ID	5624
mRNA Refseq	NM_000312
Protein Refseq	NP_000303
UniProt ID	P04070
Chromosome	2q13-q14

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Location	
MIM	612283
Pathway	Complement and coagulation cascades; Hemostasis; Metabolism of proteins; aling in Immune system
Function	calcium ion binding; peptidase activity; protein binding; serine-type endopeptidase activity

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