

Recombinant Human PROC therapeutic protein(Drotrecogin alfa)

Cat. No. PROC-P027H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human activated protein C therapeutic protein is synthesized by recombinant DNA technology. It is a glycoprotein of approximately 55 kilodalton molecular weight, consisting of a heavy chain and a light chain linked by a disulfide bond.

Species

Human

Description

This gene encodes a vitamin K-dependent plasma glycoprotein. The encoded protein is cleaved to its activated form by the thrombin-thrombomodulin complex. This activated form contains a serine protease domain and functions in degradation of the activated forms of coagulation factors V and VIII. Mutations in this gene have been associated with thrombophilia due to protein C deficiency, neonatal purpura fulminans, and recurrent venous thrombosis.

Molecular Mass

55000

AA Sequence

>Heavy chainLIDGKMTRRGDSPWQVVLDSKKKLACGAVLIHPSWVLTAAHCMDES
KKLLVRLGEYDLRRWEKWELDLDIKEVFVHPNYSKSTTDNDIALHQAQATLSQTIV
PICLPDSGLAERELNQAGQETLVGTWGYHSSREKEAKRNRTFVLNFIKIPVVPNEC
SEVMSNMVSENMLCAGILGDRQDACEGDSGGPMVASFHGTWFLVGLVSWGEGCG
LLHNYGVYTKVSRYLWDWIHGHIRDKEAPQKSWAP>Light chainSKHVDGDQCLVLPL
EHPCASLCCGHGTCIXGIGSFSCDCRSGWEGRFCQREVSLNCSLDNGGCTHYCL
EEVGWRRRCSCAPGYKLGDDLLQCHPAVKFPCGRPWKRMKKRSHL

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Endotoxin	< 0.1 EU per µg of the protein
Purity	>95%
Alias	PROC; PC; APC; PROC1; THPH3; THPH4; Drotrecogin alfa
GENE INFORMATION	
Gene Name	PROC protein C (inactivator of coagulation factors Va and VIIIa) [Homo sapiens]
Official Symbol	PROC
Synonyms	PROC; protein C (inactivator of coagulation factors Va and VIIIa); vitamin K-dependent protein C; autoprothrombin IIA; anticoagulant protein C; blood coagulation factor XIV; PC; APC; PROC1; THPH3; THPH4;
Gene ID	5624
mRNA Refseq	NM_000312
Protein Refseq	NP_000303
MIM	612283
UniProt ID	P04070
Chromosome Location	2q13-q14
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades,

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organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Gamma-carboxylation of protein precursors, organism-specific biosystem;

Function

calcium ion binding; peptidase activity; protein binding; serine-type endopeptidase activity;

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