

Active Native Human Activated Protein C

Cat. No. PROC-64H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human Plasma

ProteinLength 1-461 aa

Description

The Activated Human Protein C was activated from homogeneous protein C by activation with purified alpha-thrombin. The alpha-thrombin is removed after activation. Complete activation is observed on SDS-PAGE. Protein C (PROC) is a vitamin K-dependent serine protease which regulates blood coagulation by inactivating factors Va and VIIIa in the presence of calcium ions and phospholipids. PROC is cleaved to its activated form by the thrombin-thrombomodulin complex. This activated form, which contains a serine protease domain, functions in degradation of the activated forms of coagulation factors V and VIII. Mutations in the PROC gene are linked with thrombophilia due to protein C deficiency, neonatal purpura fulminans, and recurrent venous thrombosis. This protein is purified from fresh frozen human plasma using a combination of salt precipitations and column chromatography.

Form Liquid

Bio-activity Lot dependent

Molecular Mass 56 kDa

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Purity	Purity by SDS-PAGE: ≥95%
Usage	For Research Use Only! Not For Use in Humans.
Notes	Centrifuge the vial prior to opening
Storage Buffer	In 20 mM Tris-HCl, 0.1 M NaCl, pH 7.4
Shipping	Dry Ice

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

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Pathway

Cell surface interactions at the vascular wall, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, 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;