

Human Protein C / PROC - Purified

Alternate names:	Anticoagulant protein C, Autoprothrombin IIA, Blood coagulation factor XIV, Inactivator of coagulation factors Va and VIIIa, PROC1, Vitamin K-dependent protein C
Catalog No.:	BA545X
Quantity:	0.1 mg
Concentration:	5.6 mg/ml (OD280 nm, E1% = 14.5)
Background:	Protein C is a vitamin K dependent serine protease zymogen. Purified human activated protein C selectively destroys factors Va and VIII:C in human plasma and thus has an important anticoagulant role. Protein C deficiency has been associated with inherited thrombophilia. In its primary structure, protein C is similar to the prothrombin group of blood coagulation factors. It most closely resembles factor X. Protein C is synthesized as a single chain; this precursor molecule is cleaved into a light chain and a heavy chain held together by a disulfide bond. The enzyme is then activated by thrombin, which cleaves a tetradecapeptide from the amino end of the heavy chain.
Uniprot ID:	P04070
NCBI:	NP_000303
GenelD:	5624
Species:	Human
Source:	Human Plasma
Format:	State: Liquid purified fraction. Purity: Immunoaffinity chromatography. Buffer System: 50% Glycerol/H2O (vol/vol), containing no preservatives. .
Description:	Human Protein C. < 0.02% APC activity is measured using a chromogenic substrate based assay. Isoelectric Point: 4.4-4.8 Molecular weight: 62 kDa
Add. Information:	Vial Contains Small Volume. Centrifuge Product Before Opening!
Storage:	Store the antigen at -20°C Avoid repeated freezing and thawing. Shelf life: six months from despatch.
Caution:	All human source materials have tested negative for HIV1, HIV2, HCV antibodies, HBsAg, HIV-1 antigens, STS, anti-HB core, and anti-HTLV I & II. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
General Readings:	1. Esmon, C.T., (1984), Progress in Thromb. and Hemosts., 10, 25. 2. Stenflo, J., (1984), Semin. in Thromb. and Hemostas., 10, 109. 3. Walker, F.J., et al., (1979), Biochim. Biophys. Acta, 571, 333.

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5. Jenny, R.J., et al., (1986), Prep. Biochem., 16, 227.
6. Griffen, J.H., et al., (1982), Blood, 60, 261.
7. Kisiel, W., et al., (1981), Methods Enzymol., 80, 320.
8. Discipio, R.G., et al., (1979), Biochemistry, 18, 899.
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