

## Activated Protein C, Human Plasma

<b>CATALOG #:</b>	7683-50	50 µg
<b>ALTERNATE NAMES:</b>	Vitamin K-dependent protein C, Anticoagulant protein C, Autoprothrombin IIA, Blood coagulation factor XIV, PROC, PC, APC, PROC1, THPH3, THPH4.	
<b>SOURCE:</b>	Human Plasma. purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV1/2, Anti-HTLV I & II, HBsAg, Anti-HCV, Syphilis, HBC Ab, HIV-1 p24 Ag or HIV-1 RNA, HCV RNA and HBV RNA. Donors are screened for CJD (Creutzfeldt-Jakob Disease).	
<b>MOL. WEIGHT:</b>	56 kDa	
<b>PURITY:</b>	≥ 95% by SDS-PAGE.	
<b>EXTINCTION COEFFICIENT (1%):</b>	14.5	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	In 20 mM Tris-HCl, 0.1 M NaCl, pH 7.4	
<b>ACTIVITY:</b>	Lot dependent.	
<b>STORAGE CONDITIONS:</b>	Store at -60°C or lower. Avoid repeated freezing and thawing cycles.	

**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.

### RELATED PRODUCTS:

- Protein C, Human Plasma (**Cat. No. 7682-50**)
- Factor Va, Human Plasma (**Cat. No. 4098-10, 50**)
- Thrombin, Active, Porcine blood (**Cat. No. 7590-1, 10, 100**)
- Thrombin, Active, Bovine Plasma (Technical grade) (**Cat. No. 7591-1, 10, 100**)
- Thrombin, Active, Bovine Plasma (High Activity) (**Cat. No. 7592-1, 10, 100**)
- Thrombin, Active, Human Plasma (**Cat. No. 7590-250, 1000**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**