

## PROC

## Recombinant Human Protein-C His

<b>Catalog No.</b>	CS437A CS437B CS437C	<b>Quantity:</b>	2 µg 10 µg 100 µg
<b>Alternate Names:</b>	APC, PC, PROC1, THPH3, THPH4		
<b>Description:</b>	<p>Protein C (PROC) is a vitamin K-dependent serine protease that regulates blood coagulation by inactivating factors Va and VIIIa in the presence of calcium ions and phospholipids. It 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. Protein C is synthesized as a single chain precursor, which is cleaved into a light 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. This reaction, which occurs at the surface of endothelial cells, is intensely promoted by thrombomodulin.</p> <p>Recombinant Human PROC is a full length protein (33-461 aa) with a C-terminal His tag.</p>		
<b>Physical Appearance:</b>	Sterile Filtered clear solution.		
<b>Gene ID:</b>	5624		
<b>Protein Accession No:</b>	P04070		
<b>Source:</b>	HEK 293 cells		
<b>Molecular Weight:</b>	72 kDa		
<b>Formulation:</b>	Sterile filtered solution in 50 mM Tris, pH 7.5, + 300 mM NaCl + 10% Glycerol.		
<b>Purity:</b>	>80.0% as determined by SDS-PAGE.		
<b>Amino Acid Sequence:</b>	<p><b><i>MWQLTSLLLF VATWGISGTP APLDSVFSSS ERAHQVLRIR KRANSFLEEL</i></b>  <i>RHSSLERECI EEICDFEEAK EIFQNVD DTL AFWSKHVDGD QCLVLPLEHP</i>  <i>CASLCCGHGT CIDGIGSFSC DCRSGWEGRF CQREVSFLNC SLDNGGCTHY</i>  <i>CLEEVGWRRRC SCAPGYKLGD DLLQCHPAVK FPCGRPWKRM EKKRSHLKR D</i>  <i>TEDQEDQVDP RLIDGKMTRR GDSPWQVVLL DSKKKLACGA VLIHPSWVLT</i>  <i>AAHCMDESKK LLVRLGEYDL RRWEKWELDL DIKEVFVHPN YSKSTTDNDI</i>  <i>ALLHLAQPAT LSQTIVPICL PDSGLAEREL NQAGQETLVT GWGYHSSREK</i>  <i>EAKRNRTFVL NFIKIPVVPV NECSEVMSNM VSENMLCAGI LGDRQDACEG</i>  <i>DSGGPMVASF HGTWFLVGLV SWGEGCGLLH NYGVYTKVSR YLDWIHGHIR</i>  <i>DKEAPQKSWA PEF</i><b>HHHHHHHHH</b>.</p>		
<b>Note:</b>	The first 32 amino acids are predicted as signal peptide.		
<b>Storage &amp; Stability:</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. <b>Please avoid freeze thaw cycles.</b>		

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