

## 32-7799: Recombinant Human Vitamin K-Dependent Protein C/PROC (C-6His)(Discontinued)

**Gene :** PROC  
**Gene ID :** 5624  
**Uniprot ID :** P04070

### Description

Source: Human Cells.  
MW :51.1kD.

Recombinant Human Protein C is produced by our Mammalian expression system and the target gene encoding Thr19-Pro461 is expressed with a 6His tag at the C-terminus. Vitamin K-Dependent Protein C (PROC) is a serine protease that belongs to the peptidase S1 family. Human PROC is synthesized as a single chain precursor, which is cleaved into a light chain and a heavy chain held together by a disulfide bond. PROC is expressed in plasma and liver. PROC contains one peptidase S1 domain, one Gla ( gamma -carboxy-glutamate) domain and two EGF-like domains. 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. Defects in PROC are the cause of thrombophilia due to protein C deficiency, autosomal dominant (THPH3) and autosomal recessive (THPH4).

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,150mM NaCl,10%Glycerol,pH7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** TPAPLDSVFSSSERAHQVLRIRKRANSFLEELRHSSLERECIEEICDFEEAKEIFQNVDDTLAFWSKHVDGDQCL  
VLPLEHPCASLCCGHGTCIDGIGSFSCDCRSWEGRFQREVSFLNCSLDNGGCTHYCLEEVGWRRCSAPG  
YKLGDDLLQCHPAVKFPCGRPWKRMEKKRSHLKRDTEDQEDQVDPRLIDGKMTRRGDSPWQVLLDSKKKL  
ACGAVLIHPSWVLTAAHCMDESKLLVRLGEYDLRRWEKWELDLDIKEVFVHPNYSKSTTDNDIALHLAQPAT  
LSQTIVPICLPDSGLAERELNQAQETLVGTGWGYHSSREKEAKRNRTFVLNFKIPVVPVPHNECSEVMNMVSEN  
MLCAGILGDRQDACEGDSGGPMVASFHGTWFLVGLVSWGEGCGLLHNYGVYTKVSRYLWDWIHGHIRDKEAP  
QKSWAPLEHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.