Coagulation Factor XIV/PROC Protein, Human (HEK293, His)

Cat. No.:	HY-P74237
Synonyms:	Vitamin K-dependent protein C; APC; Protein C; PROC
Species:	Human
Source:	HEK293
Accession:	P04070 (T19-P461)
Gene ID:	5624
Molecular Weight:	56-64&45 kDa

PROPERTIES

AA Sequence	T P A P L D S V F S S S E R A H Q V L R I R K R A N S F L E E L R H S S L E R E E C I E E I C D F E E A K E I F Q N V D D T L A F W S K H V D G D Q C L V L P L E H P C A S L C C G H G T C I D G I G S F S C D C R S G W E G R F C Q R E V S F L N C S L D N G G C T H Y C L E E V G W R R C S C A P G Y K L G D D L L Q C H P A V K F P C G R P W K R M E K K R S H L K R D T E D Q E D Q V D P R L I D G K M T R R G D S P W Q V V L L D S K K K L A C G A V L I H P S W V L T A A H C M D E S K K L L V R L G E Y D L R R W E K W E L D L D I K E V F V H P N Y S K S T T D N D I A L L H L A Q P A T L S Q T I V P I C L P D S G L A E R E L N Q A G Q E T L V T G W G Y H S S R E K E A K R N R T F V L N F I K I P V V P H N E C S E V M S N M V S E N M L C A G I L G D R Q D A C E G D S G G P M V A S F H G T W F L V G L V S W G E G C G L L H N Y G V Y T K V S R Y L D W I H G H I R D K E A P Q K S W A P
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Coagulation Factor XIV (PROC) is a vitamin K-dependent serine protease crucial for the regulation of blood coagulation. In its active form, Protein C plays a vital role in inactivating factors Va and VIIIa in the presence of calcium ions and phospholipids, contributing significantly to the intricate balance of coagulation pathways. Additionally, Protein C demonstrates a protective effect on endothelial cell barrier function, highlighting its broader impact on vascular integrity.

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