

## Coagulation Factor XIV/PROC Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74236
Synonyms:	Vitamin K-dependent protein C; APC; Protein C; PROC
Species:	Mouse
Source:	HEK293
Accession:	P33587 (I19-L460)
Gene ID:	19123
Molecular Weight:	Approximately 63&45 kDa

### PROPERTIES

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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
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 Protein, also known as Protein C, emerges as a pivotal vitamin K-dependent serine protease crucial for the regulation of blood coagulation. Functioning in the presence of calcium ions and phospholipids, Protein C plays a key role in the inactivation of factors Va and VIIIa, thereby modulating the coagulation cascade. Beyond its role in hemostasis, Protein C extends its influence to endothelial cell barrier function, exerting a protective effect. This dual functionality underscores the significance of Coagulation Factor XIV/PROC Protein in maintaining the delicate balance of blood coagulation and endothelial integrity, highlighting its intricate involvement in physiological processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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