

Product Data Sheet

Coagulation factor IX/F9 Protein, Human (HEK293, His)

Cat. No.: HY-P70231

Synonyms: rHuCoagulation factor IX/F9, His; F9; Coagulation factor IX; Christmas factor; Plasma

thromboplastin component; Coagulation factor IXa light chain; Coagulation factor IXa heavy

chain

Species: Human
Source: HEK293

Accession: P00740 (T29-T461)

Gene ID: 2158

Molecular Weight: 60-90 kDa

PROPERTIES

AA Sequence	T V F L D H E N A N C S F E E A R E V F K D D I N S Y E C W A D N K V V C S C T L T R A E T V F P D G G E D A K P G Q F V E T G V K I T V V I N K Y N H D I A L G S G Y V S G W G R T I Y N N M F C A G I S W G E E C A M K	K I L N R P K R Y N E N T E R T T E F W C P F G F E G K N C E G Y R L A E N Q K V D Y V N S T E A E P W Q V V L N G K V A G E H N I E E T E L E L D E P L V L N V F H K G R S A L V F H E G G R D S C Q G K Y G I Y T K V S	S G K L E E F V Q G K Q Y V D G D Q C E E L D V T C N I K N S C E P A V P F P C T I L D N I T Q S T D A F C G G S I V N H T E Q K R N V I R S Y V T P I C I A D L Q Y L R V P L V D G D S G G P H V T E R Y V N W I K E K T	N L E R E C M E E K S N P C L N G G S C G R C E Q F C K N S G R V S V S Q T S K Q S F N D F T R V V E K W I V T A A H C I I P H H N Y N A A K E Y T N I F L K F R A T C L R S T K F V E G T S F L T G I K L T
Biological Activity	 Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. Read at excitation and emission wavelengths of 320 nm and 405 nm (top read). The specific activity is >200 pmol/min/μg, as measured under the described conditions. Measured by its ability to cleave the peptide substrate Z-D-Arg-Gly-Arg-pNA and the specific activity is >20 pmol/min/μg. (Activate human Coagulation factor IX wih Thermolysin in Assay Buffer, 37⊠, 90 min.) 			
Appearance	Solution.			
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 8.0 or PBS, pH 7.4.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	N/A			
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.			
Shipping	Shipping with dry ice.			

Page 1 of 2 www.MedChemExpress.com

DESCRIPTION

Background

Coagulation factor IX, also known as F9, is a vitamin K-dependent plasma protein crucial for blood coagulation, particularly in the intrinsic pathway. This protein plays a pivotal role in converting factor X to its active form in the presence of Ca(2+) ions, phospholipids, and factor VIIIa. As a key component of the coagulation cascade, factor IX contributes to the formation of a stable blood clot, preventing excessive bleeding. The described mechanism highlights the intricate interplay of factor IX with other coagulation factors and cofactors, underscoring its essential role in maintaining hemostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com