

Coagulation Factor IX/F9 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74240
Synonyms:	Coagulation Factor IX; F9; FIX; HEMB; PTC
Species:	Mouse
Source:	HEK293
Accession:	P16294 (A29-T471)
Gene ID:	14071
Molecular Weight:	Approximately 60-95 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<pre> AVFLDRENAT KILTRPKRYN SGKLEEFVRG NLERECIEER CSFEEAREVVF ENTEKTTEFW KQYVDGDQCE SNPCLNGGIC KDDISSYECW CQVGFEGRNC ELDATCNIKN GRCKQFCKNS PDNKVIC SCT EGYQLAEDQK SCEPTVPFPC GRASISYSSK KITRAETVFS NMDYENSTE A VFIQDDITDG AILNNVTESS ESLNDFTRVV GGENAKPGQI PWQVILNGEI EAFCGGAIIN EKWIVTAAHC LKPGDKIEVV AGEYNIDKKE DTEQRRNVIR TIPHHQYNAT INKYSHDIAL LELDKPLILN SYVTPICVAN REYTNIFLKF GSGYVSGWGK VFNKGRQASI LQYLRVPLVD RATCLRSTTF TIYNNMFCAG YREGGKDSCE GDSGGPHVTE VEGTSFLTGI ISWGEECAMK GKYGIYTKVS RYVNWIKEKT KLT </pre>
Biological Activity	Measured by its ability to cleave 10µM fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The specific activity is 227.339 pmol/min/µg, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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 ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 IX/F9 Protein, a vitamin K-dependent plasma protein, plays a crucial role in the intrinsic pathway of blood coagulation. Its function involves converting factor X into its active form, and this process is facilitated in the presence of Ca(2+) ions, phospholipids, and factor VIIIa.

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

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