

## Coagulation factor IX/F9 Protein, Human (461a.a, HEK293, His)

Cat. No.:	HY-P73509
Synonyms:	Coagulation Factor IX; F9; FIX; HEMB; PTC
Species:	Human
Source:	HEK293
Accession:	AAB59620.1 (M1-T461)
Gene ID:	2158
Molecular Weight:	60-80 kDa

### PROPERTIES

Biological Activity	Measured by its ability to cleave the peptide substrate Z-D-Arg-Gly-Arg-pNA and the specific activity is >20pmols/min/ug. (Activate human Coagulation factor IX with Thermolysin in Assay Buffer, 37°C, 90 min.)
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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.

### DESCRIPTION

Background	<p>Coagulation factor IX is a vitamin K-dependent protein, and its deficiency can lead to hemophilia B<sup>[1]</sup>. Coagulation factor IX is the zymogen of plasma protease factor XIa (fXIa). In the presence of Ca<sup>2+</sup>, phospholipids, and factor VIIIa, coagulation factor IX is proteolytically converted to factor IXaβ (fIXaβ), which promotes the production of thrombin during coagulation. Coagulation factor IX contributes to thrombosis, while playing a relatively minor role in hemostasis<sup>[2][3]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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