



Recombinant Protein Technical Manual

**Recombinant Human Coagulation Factor IX/F9
Protein (His Tag)(Active)**
RPES1399

Product Data:

Product SKU: RPES1399

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: AAB59620.1

Protein Information:

Molecular Mass: 50 kDa

AP Molecular Mass: 60-80 kDa

Tag: C-His

Bio-activity: Measured by its ability to cleave the peptide substrate, Z-D-Arg-Gly-Arg-pNA. The specific activity is >20pmols/min/ug.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Coagulation factor 9;F9;Coagulation factor IX;Christmas factor;Plasma thromboplastin component;Coagulation factor IXa light chain;Coagulation factor IXa heavy chain;FIX;HEMB;P19;PTC;THPH8

Immunogen Information:

Sequence: Met 1-Thr 461

Background:

Coagulation factor IX, also known as Christmas factor, Plasma thromboplastin component and PTC, is a secreted protein which belongs to the peptidase S1 family. Coagulation factor IX / F9 contains two EGF-like domains, one Gla (gamma-carboxy-glutamate) domain and one peptidase S1 domain. Coagulation factor IX / F9 is a vitamin K-dependent plasma protein that participates in the intrinsic pathway of blood coagulation by converting factor X to its active form in the presence of Ca²⁺ ions, phospholipids, and factor VIIIa. Defects in Coagulation factor IX / F9 are the cause of thrombophilia due to factor IX defect which is a hemostatic disorder characterized by a tendency to thrombosis. Defects in Coagulation factor IX / F9 are also the cause of recessive X-linked hemophilia B (HEMB) which also known as Christmas disease.