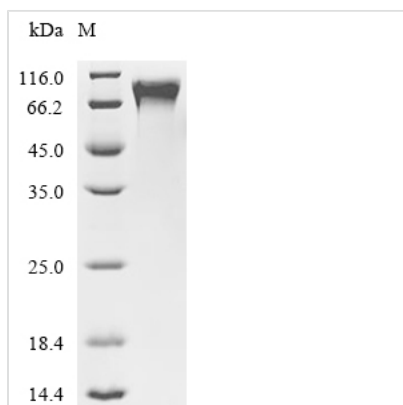




# Recombinant *Macaca fascicularis* Coagulation factor IX (F9) (Active)

<b>Product Code</b>	CSB-MP7216MOV
<b>Abbreviation</b>	Recombinant Cynomolgus monkey F9 protein (Active)
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	G7Q1U2
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm sterile filtered PBS, 6% Trehalose, pH 7.4
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	<i>Macaca fascicularis</i> (Crab-eating macaque) (Cynomolgus monkey)
<b>Biological Activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, MCA-Arg-Pro-Lys-Pro-Val-Glu-NVAL-Trp-Arg-Lys(DNP)NH <sub>2</sub> . The specific activity is >50 pmol/min/μg.
<b>Purity</b>	≥ 95% as determined by SDS-PAGE.
<b>Sequence</b>	TVFLDHENANKILNRPKRYNSGKLEEFVQGNLERECMEEKCNFEEAREVFENT EKTTEFWKQYVDGDQCESNPCLNGGSCKDDINSYECWCPFGFEGKNCELDV TCNIKNGRCKQFCKNTADNKVVCSCTEGYRLAENQKSCEPAVPFPCGRVSVS QTSTLTRAETVFPDVEYVNSTEAEITLDNITQSTQSFNDFTRVVGGEDAKPGQF PWQVVLNGKVDAFCGGSIVNEKWVVTAAHCVETDAKITVVAGEHNIETEHE QKRNVIIRIIPHHNYNATINKYNHDIALLELDEPLVLNSYVTPICIAKEYTNIFLKF GSGYVSGWGRVFNKGRSASVLQYLRVPLVDRATCLRSTKFTIYNNMFCAGFH EGGRDSCQGDSSGGPHVTEVEGTSFLTGIISWGEECAMKGKYGITYTKVSRVYN WIKKTKLT
<b>Source</b>	Mammalian cell
<b>Target Names</b>	F9
<b>Expression Region</b>	29-461aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal 10xHis-tagged
<b>Mol. Weight</b>	50.1 kDa
<b>Protein Length</b>	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

<b>Enzyme</b>	Macaca fascicularis F9 (CSB-MP7216MOV)	0.3125µg/well
<b>Substrate</b>	MCA-Arg-Pro-Lys-Pro-Val-Glu-NVAL-Trp-Arg-Lys(DNP)NH <sub>2</sub> (R&D, ES002)	10µM
<b>Reaction system</b>	/	100µl
<b>Reaction conditions</b>	5min in dark	/
<b>Buffer</b>	100 mM Tris, 10 mM CaCl <sub>2</sub> , 150 mM NaCl, 0.05% (w/v) Brij-35, pH 8.0	/
<b>Enzyme activity unit</b>	>50 pmol/min/µg	/

#### Activity

Measured by its ability to cleave the fluorogenic peptide substrate, MCA-Arg-Pro-Lys-Pro-Val-Glu-NVAL-Trp-Arg-Lys(DNP)NH<sub>2</sub>. The specific activity is >50 pmol/min/µg.

#### Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

#### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.