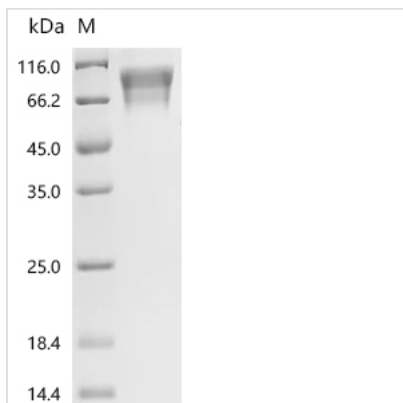




Recombinant Bovine Coagulation factor IX (F9) (Active)

Product Code	CSB-MP007936BO(A4)
Abbreviation	Recombinant Bovine F9 protein (Active)
Storage	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.
Uniprot No.	P00741
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate, MCA-Arg-Pro-Lys-Pro-Val-Glu-NVAL-Trp-Arg-Lys(DNP)NH ₂ . The specific activity is >30 pmol/min/µg.
Purity	≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.
Sequence	AECTVFLDRENATKILHRPKRYNSGKLEEFVVRGNLERECKEEKCSFEEAREVF ENTEKTTEFWKQYVDGDQCESNPCLNGGMCKDDINSYECWCQAGFEGTNC ELDATCSIKNGRCKQFCKRDTDNKVVCSCTDGYRLAEDQKSCEPAVPPFCGR VSVSHISKKLTRAETIFSNTNYENSSEAEIWDNVTQSNQSFDEF SRVVGGEDA ERGQFPWQVLLHGEIAAFCGGSIVNEKVVVTAAHCIKPGVKITVVAGEHNTEK PEPTEQKRN VIRAIPIYHSYNASINKYSHDIALLELDEPLELNSYVTPICIA DRDYT NIFLKFGYGYVSGWGKVFNRGRSASILQYLKVPLVDRATCLRSTKFSIYSHMFC AGYHEGGK DSCQGDSGGPHVTEVEGTSFLTGIISWGEECAMKGKYGIYTKVS RYVNWIKEKTKLT
Source	Mammalian cell
Target Names	F9
Expression Region	26-462aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	50.7 kDa
Protein Length	Full Length of Mature Protein
Image	

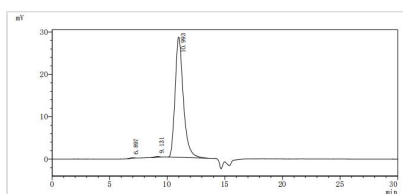


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Enzyme	Bovine F9 (CSB-MP007936BO(A4))	0.3125µg/well
Substrate	MCA-Arg-Pro-Lys-Pro-Val-Glu-NVAL-Trp-Arg-Lys(DNP)NH ₂ (R&D, E5002)	10µM
Reaction system	/	100µl
Reaction conditions	5min in dark	/
Buffer	100 mM Tris, 10 mM CaCl ₂ , 150 mM NaCl, 0.05% (w/v) Brij-35, pH 8.0	/
Enzyme activity unit	>30 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)NH₂. The specific activity is >30 pmol/min/µg.



The purity of F9 was greater than 95% as determined by SEC-HPLC

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.