



Recombinant Human Semaphorin-4D (SEMA4D), partial (Active)

Product Code	CSB-MP835707HUd9
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.	Q92854
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	①Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D at 2 µg/mL can bind biotinylated Pepinemab, the EC ₅₀ is 1.005-1.776 ng/mL. ②Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D at 5 µg/mL can bind human PLXNB1 (CSB-MP018222HU2k6), the EC ₅₀ is 0.8179-1.357 µg/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	MAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNAL NISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRVLQPLSATSLYVCGTN AFQPACDHLNLTsfkFLGKNEDGKGRCFPDPAHSYTSVMVDGELYSGTSYNF LGSEPIISRNSSHSPLRTEYAIPWLNESFVFADVIRKSPDSPDGEDDRVYFFFT EVSVEYEFVFRVLIPRIARVCKGDQGGRLTLQKKWTSFLKARLICSRPDSGLVF NVLRDVFLRSPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEVFSHGKYM QSTTVEQSHTKWVRYNGVPKPRPGACIDSEARAANYTSSLNLPDKTLQFVK DHPLMDDSVTPIDNRPRLIKDVNYTQIVVDRTQALDGTVDVVMFVSTDRGAL HKAISLEHAVHIIETQLFQDFEPVQTLLLSSKKGNRFVYAGSNSGVVQAPLAF CGKHGTCEDCVLARDPYCAWSPPTATCVALHQTESPSRGLIQEMSGDASVCP DKSKGSYRQHFFKHGGTAELKCSQKSNLARVFWKFQNGVLKAESPKYGLMG RKNLLIFNLSEGD SGVYQCLSEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTL SVVQTEGSRIATKVLVASTQGSSPPTPAVQATSSGAILPPKPAPTGTSCPKI VINTVPQLHSEKTMYLKSSDNR
Lead Time	3-7 business days
Research Area	Immunology
Source	Mammalian cell
Gene Names	SEMA4D
Expression Region	22-734aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

Tag Info

C-terminal hFc-tagged

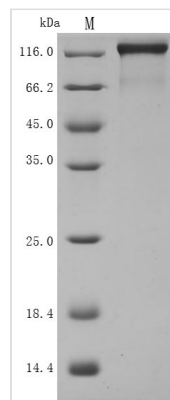
Mol. Weight

108.1 kDa

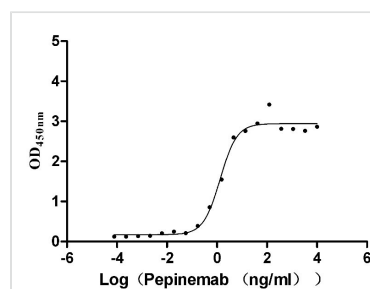
Protein Description

Partial

Image

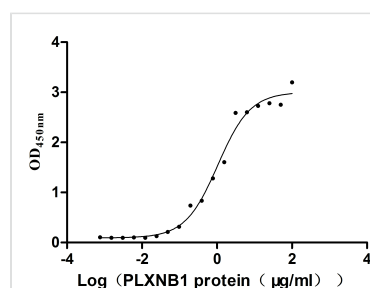


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D at 2 µg/ml can bind biotinylated Pepinemab, the EC₅₀ is 1.005-1.776 ng/mL.



Activity

Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D at 5 µg/ml can bind human PLXNB1 (CSB-MP018222HU2k6), the EC₅₀ is 0.8179-1.357 µg/mL.

Description

The C-terminally hFc-tagged human semaphorin-4D (SEMA4D) is an active recombinant protein expressed in mammalian cells. Its expression region corresponds to amino acids 22-734 of the human SEMA4D. The purity of this SEMA4D protein is greater than 95% measured by SDS-PAGE. It migrated to the molecular weight band of about 120 kDa on the gel. Its endotoxin is less than 1.0 EU/ug determined by the LAL method. In a functional ELISA, this recombinant SEMA4D protein can bind biotinylated Pepinemab. The EC₅₀ is 1.005-1.776 ng/mL. SEMA4D, also known as CD100, is involved in immune regulation, bone formation, platelet inactivation, angiogenesis stimulation, and cancer bone metastasis.

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.