

Recombinant Full Length Human SEMA4D Protein, Fc-tagged

Cat. No. SEMA4D-440H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SEMA4D protein with Fc tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-862 a.a.
Description	Enables identical protein binding activity; semaphorin receptor binding activity; and transmembrane signaling receptor activity. Involved in several processes, including positive regulation of phosphatidylinositol 3-kinase signaling; regulation of neuron projection development; and regulation of phosphate metabolic process. Is integral component of plasma membrane.
Form	Lyophilized
Molecular Mass	105.4 kDa
AA Sequence	MRMCTPIRGLLMALAVMFGTAMAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSE DKDTLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRV LQPLSATSLYVCGTNAFQPACDHLNLTsfkFLGKNEDGKGRCFPDPAHSYTSVMVD GELYSGTSYNFLGSEPIISRNSSHSPLRTEYAIPWLNESFVFADVIRKSPDSPDGED DRVYFFFTEVSVEYEFVFRVLIPRIARVCKGDQGGRLTLQKKWTSFLKARLICSRPDS GLVFNVLRDVFVLRSPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEVFSHGKYM QSTTVEQSHTKWVRYNGPVPKPRPGACIDSEARAANYTSSLNLPDKTLQFVKDHPL

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MDDSVTPIDNRPRLIKDVNYTQIVVDRTQALDGTVDVDMFVSTDRGALHKAISLEHA
 VHIIETQLFQDFEPVQTLSSKKGNRFVYAGSNSGVVQAPLAFCGKHGTCEDCVL
 ARDPYCAWSPPTATCVALHQTESPSRGLIQEMSGDASVCPDKSKGSYRQHFFKHG
 GTAEKCSQKSNLARVFWKFQNGVLKAESPKYGLMGRKNLLIFNLSEGDSGVYQCL
 SEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTLSSVQTEGSRIATKVLVASTQGSSP
 PTPAVQATSSGAILPPKPAPTGTSCPKIVINTVPQLHSEKTMYLKSSDNRLMSLF
 LFFFVLFLCLFFYNKYGYLPRQCLKFRSALLIGKKKPKSDFCDREQLKETLVEPGS
 FSQQNGEHPKPAALDTGYETEQDITSKVPTDREDSQRIDDLSDKPFDPKCELKFA
 DSDADGD

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted
 stock further in other aqueous solutions if needed. Please review COA for lot-specific
 instructions. Final measurements should be determined by the end-user for optimal
 performance.

GENE INFORMATION

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Gene Name	SEMA4D sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [Homo sapiens (human)]
Official Symbol	SEMA4D
Synonyms	SEMA4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D; C9orf164, chromosome 9 open reading frame 164 , SEMAJ; semaphorin-4D; CD100; coll 4; FLJ39737; M sema G; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D; SEMAJ; coll-4; C9orf164; M-sema-G; FLJ33485; FLJ34282; FLJ46484; MGC169138; MGC169141;
Gene ID	10507
mRNA Refseq	NM_001142287
Protein Refseq	NP_001135759
MIM	601866
UniProt ID	Q92854