

Recombinant Human SEMA4D Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SEMA4D-2696H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SEMA4D MS Standard C13 and N15-labeled recombinant protein (NP_006369) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Cell surface receptor for PLXN1B and PLXNB2 that plays an important role in cell-cell signaling. Promotes reorganization of the actin cytoskeleton and plays a role in axonal growth cone guidance in the developing central nervous system. Regulates dendrite and axon branching and morphogenesis. Promotes the migration of cerebellar granule cells and of endothelial cells. Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro). Promotes signaling via SRC and PTK2B/PYK2, which then mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade. Interaction with PLXNB1 mediates activation of RHOA.
Molecular Mass	96.2 kDa
AA Sequence	MRMCTPIRGLLMALAVMFGTAMAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSE DKDTLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRV LQPLSATSPLYVCGTNAFQPACDHLNLTSEKFLGKNEDGKGRCFPDPAHSYTSVMVD GELYSGTSYNFLGSEPIISRNSSHSPLRTEYAIPWLNPSFVFADVIRKSPDSPDGED

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DRVYFFTEVSVEYEFVFRVLIPRIARVCKGDQGGLRTLQKKWTSFLKARLICSRPDS
 GLVFNVLRDVFLRSPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEVFSHGKYM
 QSTTVEQSHTKWVRYNGPVPKPRPGACIDSEARAANYTSSLNLPDKTLQFVKDHPL
 MDDSVTPIDNRPRIKKDVNYTQIVVDRTQALDGTVDVMFVSTDRGALHKAISLEHA
 VHIIETQLFQDFEPVQTLSSKKGNRFVYAGSNSGVVQAPLAFCGKHGTCEDCVL
 ARDPYCAWSPPTATCVALHQTESPSRGLIQEMSGDASVCPDKSKGSYRQHFFKHG
 GTAEKCSQKSNLARVFWKFQNDVLKAESPKYGLMGRKNLLIFNLSEGDSGVYQCL
 SEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTLSVVQTEGSRIATKVLVASTQGSSP
 PTPAVQATSSGAILPPKPAPTGTSCPEKIVINTVPQLHSEKTMYLKSSDNRLMSLF
 LFFFVLFLCLFFYNKYGYLPRQCLKFRSALLIGKKPKSDFCDREQSLKETLVEPGS
 FSQQNGEHPKPAALDTGYETEQDTITSKVPTDREDSQRIDDLSDARKPFDVKCELKFA
 DSDADGDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SEMA4D semaphorin 4D [Homo sapiens (human)]

Official Symbol SEMA4D

Synonyms SEMA4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM)

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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_006378](#)

Protein Refseq [NP_006369](#)

MIM [601866](#)

UniProt ID [Q92854](#)

SDS-PAGE

