

Product datasheet for TP527571

Sema4d (NM_013660) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D (Sema4d), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR227571 protein sequence Red =Cloning site Green =Tags(s)

MRMCAPVRGLFLALVWVLRATAVAFAPVPRLTWEHGEVGLVQFHKPGIFNYSALLMSEDKDTLYVGAREAV
FAVNALNISEKQHEVYWKVSEDKKSKCAEKGKSKQTECLNYIRVLQPLSSTSLYVCGTNAFQPTCDHLNL
TSFKFLGKSEDKGRCRPFPAHSYTSVMVGGELYSYNTFLGSEPIISRNSHSPLRTEYAIPWLNPS
FVFADVIQKSPDGPEGEDDKVYFFTEVSVEYEFVFKLMIPRVARVCKGDQGGRLTLQKKWTSFLKARLI
CSKPDGLVFNILQDVFVLRAPGLKEPVFYAVFTPQLNNVGLSAVCAYLATVEAVFSRGKYMQSATVEQ
SHTKWVRYNGPVPTPRPGACIDSEARAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRPKLIKDVNY
TQIVDRTQALDGTfyDVMFISTDRGALHKAVILTKEVHVIEETQLFRDSEPVLTLLSSKKGRKFVYAG
SNSGVVQAPLAFCEKHGSCEDCVLARDPYCAWSPAIAKACVTLHQEEASSRGWIQDMSGDTSSCLDKSKES
FNQHFFKHGGTAELKCFQKSNLARVWVKFQNGELKAASPKYGFVGRKHLIFNLSGDGSGVYQCLSEERV
RNKTVSQLLAKHVLEVKMPRTPPSPTSEDAQTEGSKITSKMPVASTQGSSPPTALWATSPRAATLPPK
SSSGTSCEPKMVINTVQLHSEKTVYLKSSDNRLMLLFFVFLCLFSYNCYKGYLPQGQCLKFRSAL
LLGKKTPKSDFSLEQSVKETLVEPGSFSQQNGDHPKALDTGYETEQTITSKVPTDREDSQRIDELSA
RDKPFDVKCELKFADSDADGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

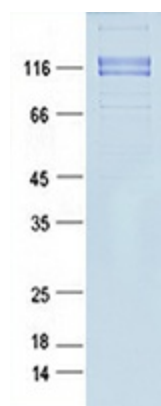
Tag:	C-MYC/DDK
Predicted MW:	95.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



[View online »](#)

Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_038688
Locus ID:	20354
UniProt ID:	O09126
RefSeq Size:	4491
Cytogenetics:	13 A5
RefSeq ORF:	2586
Synonyms:	CD100; coll-4; Semacl2; Semaj; Semcl2
Summary:	Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling (By similarity). Regulates GABAergic synapse development (PubMed:23699507, PubMed:29981480). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner (PubMed:23699507, PubMed:29981480). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA (By similarity). Promotes the migration of cerebellar granule cells (PubMed:17554007). Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro) (By similarity). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Purified recombinant protein Sema4d was analyzed by SDS-PAGE gel and Coomassie Blue Staining.