

Recombinant Full Length Human SEMA5A Protein, C-Flag-tagged

Cat. No. SEMA5A-1015HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SEMA5A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene belongs to the semaphorin gene family that encodes membrane proteins containing a semaphorin domain and several thrombospondin type-1 repeats. Members of this family are involved in axonal guidance during neural development. This gene has been implicated as an autism susceptibility gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	118.1 kDa
AA Sequence	MKGTCVIAWLFSSLGLWRLAHPEAQGTTQCQRTEHPVISYKEIGPWLREFRAKNAV DFSQLTDFPGQKEL VVGARNYLFRLQLEDLSLIQAVEWECDEATKKACYSKGKSKE ECQNYIRVLLVGGDRLFTCGTNAFTPVC TNRSLSNLTEIHDQISGMARCPYSPQHN STALLTAGGELYAATAMDFPGRDPAIYRSLGILPPLRTAQYN SKWLNEPNFVSSYDI GNFTYFFFRENAVEHDCGKTVFSRAARVCKNDIGGRFLLDWTTFMKARLNCSR PGEVPFYYNELQSTFFLPELDLIYGIFTTNVNSIAASAVCVFNLSAIAQAFSGPFKYQE NSRSAWLPYPN PNPHFQCGTVDQGLYVNLTERNLQDAQKFILMHEVVQPVTTPVS FMEDNSRFSHVAVDVVQGREALVHII YLATDYGTIKKVRVPLNQTSSSCLEEEIELFP

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ERRREPIRSLQILHSQSVLFVGLREHVVKIPLKRCQFY RTRSTCIGAQDPYCGWDVV
 MKKCTSLEESLSMTQWEQSIACPTRNLTVDGHFGVWSPWTPCTHTDGS AV GSC
 LCRTRSCDSPAPQCGGWQCEGPGMEIANCSRNGGWTPWTSWSPCSTTCGIGFQV
 RQRSCSNPTPRHG GRVCVGQNREERYCNEHLLCPPHMFWTGWGPWERCTAQC
 GGGIQARRRICENGPDCAGCNVEYQSCNTNP CPELKKTPWTPWTPVNISDNNGH
 YEQRFRTYCKARLADPNLLEVGRQRIEMRYCSSDGTSGCSTDGLSG DFLRAGRYS
 AHTVNGAWSAWTSWSQCSRDCSRGIRNRKRVCCNPEPKYGGMPCLGPSLEYQEC
 NILPCPV DGVWSCWSPWTKSATCGGGHYMTRSCSNPAPAYGGDICLGLHTEE
 ALCNTQPCPESWSEWSDWSECEA SGVQVRARQCILLFPMGSQCSGNTTESRPCV
 FDSNFIPEVSVARSSSVEEKRCGEFNMFMIAVGLSSSI LGCLLTLLVYTYCQRYQQ
 QSHDATVIHPVSPAPLNTSITNHINKLDKYDSVEAIKAFNKNLILEERNKY
 FNPHLTGKTYSNAYFTDLNNYDEYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Axon guidance
Full Length	Full L.

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GENE INFORMATION

Gene Name SEMA5A semaphorin 5A [Homo sapiens (human)]

Official Symbol SEMA5A

Synonyms semF; SEMAF

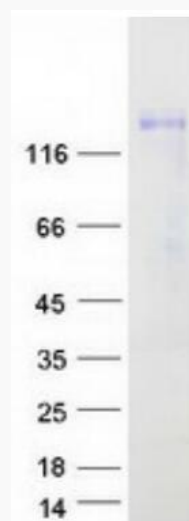
Gene ID 9037

mRNA Refseq NM_003966.3

Protein Refseq NP_003957.2

MIM 609297

UniProt ID Q13591



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Coomassie blue staining of purified SEMA5A protein.

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