

# Recombinant Human SEMA5A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SEMA5A-4337H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

SEMA5A MS Standard C13 and N15-labeled recombinant protein (NP\_003957) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### 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.

### Molecular Mass

120.6 kDa

### AA Sequence

MKGTCVIAWLFSSLGLWRLAHPEAQGTTQCQRTEHPVISYKEIGPWLREFRAKNAV  
 DFSQLTFDPGQKELVVGARNYLFRLQLEDLSLIQAVEWECDEATKKACYSKGSKE  
 ECQNYIRVLLVGGDRLFTCGTNAFTPVCTNRSLSNLTEIHDQISGMARCPYSPQHNS  
 TALLTAGGELYAATAMDFPGRDPAIYRSLGILPPLRTAQYNSKWLNEPNFVSSYDIG  
 NFTYFFFRENAVEHDCGKTVFSRAARVCKNDIGGRFLEDTWTTFMKARLNCSRPG  
 EVPFYYNELQSTFFLPELDLIYGIFTTNVNSIAASAVCVFNLSAIAQAFSGPFKYQENS  
 RSAWLPYPNPNPHFQCGTVDQGLYVNLTERNLQDAQKFILMHEVVQPVTTVPSFME  
 DNSRFSHVAVDVVQGREALVHIIYLATDYGTIKKVRVPLNQTSSSCLLEEIELFPERR  
 REPIRSLQILHSQSVLFLVGLREHVVKIPLKRCQFYRTRSTCIGAQDPYCGWDVVMKK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CTSLEESLSMTQWEQSIACPTRNLTVDGHFGVWSPWTPCTHTDGSAVGSCLCRT  
 RSCDSPAPQCGGWQCEGPGMEIANCSRNGGWTPWTSWSPCSTTCGIGFQVRQR  
 SCSNPTPRHGGRVCVGQNREERYCNEHLLCPPHMFWTGWGPWERCTAQC GGGI  
 QARRRICENGPDCAGCNVEYQSCNTNPCPELKKTTPWTPWTPVNISDNGGHYEQR  
 FRYTCKARLADPNLLEVGRQRIEMRYCSSDGTSGCSTDGLSGDFLRAGRYSAHTVN  
 GAWSAWTSWSQCSRDCSRGIRNRKRVCCNNPEPKYGGMPCLGPSLEYQECNILPC  
 PVDGVWSCWSPWTKSATCGGGHYMRTRSCSNPAPAYGGDICLGLHTEEALCNT  
 QPCPEWSEWSDWSECEASGVQVRARQCILLFPMGSQCSGNTTESRPCVFDNFI  
 PEVSVARSSSVEEKRCGEFNMFMIAVGLSSSILGCLLTLVYTYCQRYQQQSHDAT  
 VIHPVSPAPLNTSITNHINKLDKYDSVEAIKAFNKNLILEERNKYFNPHLTGKTY SNA  
 YFTDLNNYDEYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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** SEMA5A semaphorin 5A [ Homo sapiens (human) ]

**Official Symbol** SEMA5A

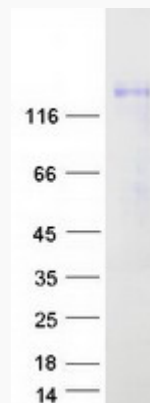
**Synonyms** SEMA5A; sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A;

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SEMAF; semaphorin-5A; semF; sema F; semaphorin F; semaphorin-F; FLJ12815;

**Gene ID** 9037**mRNA Refseq** NM\_003966**Protein Refseq** NP\_003957**MIM** 609297**UniProt ID** Q13591**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA