

Product datasheet for PH321685

Semaphorin 5A (SEMA5A) (NM_003966) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SEMA5A MS Standard C13 and N15-labeled recombinant protein (NP_003957)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221685
Predicted MW:	120.6 kDa
Protein Sequence:	>RC221685 protein sequence Red=Cloning site Green=Tags(s)

MKGTCVIAWLFSSLGLWRLAHPEAQGTTQCQRTEHPVISYKEIGPWLREFRAKNAVDFSQSLTFDPGQKEL
VVGARNYLFRLLQLEDLSLIQAVEWECDEATKACYSKSKKEECQNYIRVLLVGGDRLFTCGTNAFTPVC
TNRSLSNLTEIHDQISGMARCPYSPQHNSALLTAGGELYAATAMDFPGRDPAIYRSLGILPPLRTAQYN
SKWLNPNFVSSYDIGNFTYFFRENAVEHDCGKTVFSRAARVCKNDIGGRFLLEDWTTFMKARLNCSR
PGEVPPFYNELQSTFFLPELDLIYGIFFTNNVNSIAASAVCVFNLSAIAQAFSGPFKYQENSRSAWLPYPN
PNPHFCQGTVDQGLYVNLTERNLQDAQKFI LMHEVVQPVTVP SFMEDNSRF SHVAVDVVQGREALVHII
YLATDYGTIKKVRVPLNQTSSSCLLEEIE LFPERRREP I RSLQILHSQS VLFVGLREHVVKIPLKRCQFY
RTRSTCIGAQDPYCGWDVVMKKCTSL EESLSMTQWEQSISACPTRNL TVDGHFGVWSPWPTCTHTDGS AV
GSCLCRTRSCDSPAPQC GGWQCEGPGMEI ANCSRNGGWPWTSWSPCSTTCGIGFQVRQRSCSNPTPRHG
GRVCVQGNREERYCNEHLLCPPHMFWTGWGPWERTACTAQC GGGIQARRRICENGPDCAGCNVEYQSCNTNP
CPELKKTPWTPWTPVNI SDNGGHYEQFRY TCKARLADPNLLEVGRQRIEMRYCSSDGTSGCSTDLGSG
DFLRAGRYSAHTVNGAWSAWTSWSQCSRDSRGIRNRKVCNNPEPKYGGMPCLGPSLEYQECNII LPCPV
DGVWSCWSPWTKSATCGGGHYMRTRSCSNPAPAYGGD ICLGLHTEEALCNTQCPESWSEWSDWSECEA
SGVQVRARQCILLFPMGSCSGNTTESRCPVFDSNF IPEVSVARSSSVEEKRCGEFNMFMIAVGLSSSI
LGCLL TLLVYTYCQRYQQSHDATVIHPVSPAPLNTSITNHINKLDKYDSVEAIKAFNKNLILEERNKY
FNPFLTGKTYSNAYFTDLNNDYDEY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3



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Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003957
RefSeq Size:	11825
RefSeq ORF:	3222
Synonyms:	SEMAF; semF
Locus ID:	9037
UniProt ID:	Q13591 , X5DR95
Cytogenetics:	5p15.31
Summary:	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.[provided by RefSeq, Jan 2010]
Protein Families:	Transmembrane
Protein Pathways:	Axon guidance

Product images:



Coomassie blue staining of purified SEMA5A protein (Cat# [TP321685]). The protein was produced from HEK293T cells transfected with SEMA5A cDNA clone (Cat# [RC221685]) using MegaTran 2.0 (Cat# [TT210002]).