Recombinant Human SEMA3C Protein, hIgG-tagged

Cat. No. SEMA3C-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Semaphorin 3C (21-738aa), fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	21-738aa
Description	This gene encodes a secreted glycoprotein that belongs to the semaphorin class 3 family of neuronal guidance cues. The encoded protein contains an N-terminal sema domain, integrin and immunoglobulin-like domains, and a C-terminal basic domain. Homodimerization and proteolytic cleavage of the C-terminal propeptide are necessary for the function of the encoded protein. It binds a neuropilin co-receptor before forming a heterotrimeric complex with an associated plexin. An increase in the expression of this gene correlates with an increase in cancer cell invasion and adhesion. Naturally occurring mutations in this gene are associated with Hirschsprung disease.
Form	Liquid
Molecular Mass	107.2 kDa (951aa)
AA Sequence	GSSQPQARVYLTFDELRETKTSEYFSLSHHPLDYRILLMDEDQDRIYVGSKDHILSLN

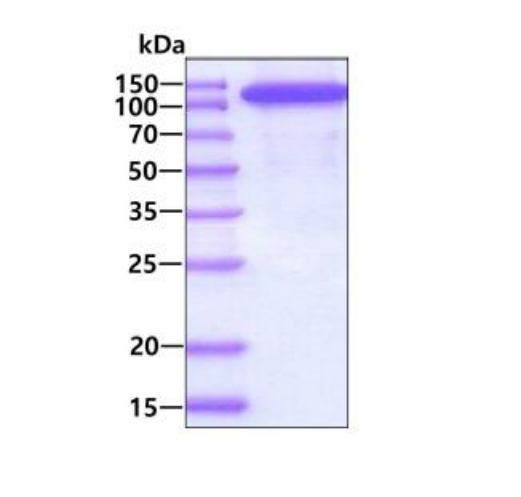
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	INNISQEALSVFWPASTIKVEECKMAGKDPTHGCGNFVRVIQTFNRTHLYVCGSGAF SPVCTYLNRGRRSEDQVFMIDSKCESGKGRCSFNPNVNTVSVMINEELFSGMYIDF MGTDAAIFRSLTKRNAVRTDQHNSKWLSEPMFVDAHVIPDGTDPNDAKVYFFFKEK LTDNNRSTKQIHSMIARICPNDTGGLRSLVNKWTTFLKARLVCSVTDEDGPETHFDE LEDVFLLETDNPRTTLVYGIFTTSSSVFKGSAVCVYHLSDIQTVFNGPFAHKEGPNHQ LISYQGRIPYPRPGTCPGGAFTPNMRTTKEFPDDVVTFIRNHPLMYNSIYPIHKRPLIV RIGTDYKYTKIAVDRVNAADGRYHVLFLGTDRGTVQKVVVLPTNNSVSGELILEELEV FKNHAPITTMKISSKKQQLYVSSNEGVSQVSLHRCHIYGTACADCCLARDPYCAWD GHSCSRFYPTGKRRSAAQDVRHGNPLTQCRGFNLKAYRNAAEIVQYGVKNNTTFLE CAPKSPQASIKWLLQKDKDAAKEVKLNERIIATSQGLLIRSVQGSDQGLYHCIATENS FKQTIAKINFKVLDSEMVAVVTDKWSPWTWASSVRALPFHPKDIMGAFSHSEMQMI NQYCKDTRQQHQQGDESQKMRGDYGKLKALINS
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	SEMA3C semaphorin 3C [Homo sapiens (human)]
Official Symbol	SEMA3C

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Synonyms	SEMA3C; semaphorin 3C; SemE; SEMAE; semaphorin-3C; sema E; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C; semaphorin E
Gene ID	10512
mRNA Refseq	NM_006379
Protein Refseq	NP_006370.1
MIM	602645
UniProt ID	Q99985
SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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