

## Active Recombinant Human SEMA3C protein

Cat. No. SEMA3C-66H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SEMA3C protein (Gly21-Ser738) was expressed in Mouse myeloma cell line, NS0-derived.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	21-738 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Bio-activity</b>	Measured by the ability of the immobilized protein to support the adhesion of SVEC410 mouse vascular endothelial cells to Fibronectin. When 5 x 10 <sup>4</sup> cells per well are added to rhFibronectin (2 ng/mL) coated plates in the presence of rhSemaphorin 3C (10

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	μ
<b>Molecular Mass</b>	107.7 kDa
<b>Endotoxin</b>	<0.10 EU per 1 μg of the protein by the LAL method
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile
<b>Reconstitution</b>	Reconstitute at 500 μg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## GENE INFORMATION

<b>Gene Name</b>	SEMA3C
<b>Official Symbol</b>	SEMA3C
<b>Synonyms</b>	SemE; SEMAE
<b>Gene ID</b>	10512
<b>mRNA Refseq</b>	NM_001350120.2
<b>Protein Refseq</b>	NP_001337049.1

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**MIM** 602645

**UniProt ID** Q99985

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