

Active Recombinant Human SEMA3C protein

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

SPECIFICATION

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

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	μ
Molecular Mass	107.7 kDa
Endotoxin	<0.10 EU per 1 μg of the protein by the LAL method
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	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
Reconstitution	Reconstitute at 500 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

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

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MIM	602645
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UniProt ID	Q99985
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