

Active Recombinant Human SEMA5B, MlgG2a Fc-tagged

Cat. No. SEMA5B-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human SEMA5B (AAH77726.1) (Val78-Thr834) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.
Species	Human
Source	CHO
ProteinLength	78-834 a.a.
Description	This gene encodes a member of the semaphorin protein family which regulates axon growth during development of the nervous system. The encoded protein has a characteristic Sema domain near the N-terminus, through which semaphorins bind to plexin, and five thrombospondin type 1 repeats in the C-terminal region of the protein. The protein product may be cleaved and exist as a secreted molecule (PMID: 19463192). Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of human pancreatic cancer cells.
Molecular Mass	110KDa (monomer)
AA Sequence	Val78-Thr834

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Endotoxin	<0.06 eu/μg="" as="" determined="" by="" la="" test="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	SEMA5B sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5B [Homo sapiens]
Official Symbol	SEMA5B
Synonyms	SemG; SEMAG
Gene ID	54437
mRNA Refseq	NM_001256348.1
Protein Refseq	NP_001243277.1
MIM	609298
UniProt ID	Q9P283

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Chromosome Location	3q21.1
Pathway	Axon guidance, organism-specific biosystem;Axon guidance, conserved biosystem;
Function	receptor activity;

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