

Active Recombinant Human SEMA6B, Fc Chimera

Cat. No. SEMA6B-1925H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SEMA6B fused with a Fc region of human IgG1 at the C-terminus via a peptide linker was expressed in a mouse myeloma cell line, NS0.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the semaphorin family, a group of proteins characterized by the presence of a conserved semaphorin (sema) domain. Whereas some semaphorins are transmembrane proteins, others are secreted. Semaphorins play a major role in axon guidance. The protein encoded by this gene may be involved in both peripheral and central nervous system development.
Purity	> 95%, as determined by SDS-PAGE and visualized by silver stain.
Molecular Mass	The mature recombinant human Semaphorin 6B/Fc chimera, generated by proteolytic removal of the signal peptide region, is a homodimeric protein. Based on N-terminal sequencing, the mature recombinant human Semaphorin 6B protein starts at Leu 26. The monomer of the recombinant human Semaphorin 6B has a calculated molecular mass of approximately 63.4 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 110 - 120 kDa protein in SDS-PAGE under reducing conditions.
Activity	Measured by its ability to cause collapse of chick DRG growth cones. The ED50 for this effect is typically 2.5 - 5.0

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	μg/mL in the presence of 10 ng/mL of rhβ-NGF.
Endotoxin	< 1.0 EU per 1 μg of the enzyme as determined by the LAL method.
Format	Lyophilized from a 0.2 μm filtered solution in PBS.
Storage	Samples are stable for up to six months at -70°C in a manual defrost freezer after the date of receipt. After receiving, this protein can be aliquoted and stored at above temperature for up to six months without a significant loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	SEMA6B sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B [Homo sapiens]
Synonyms	SEMA6B; sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6B; SEMAN; semaZ; SEMA-VIB; SEM-SEMA-Y; SEMA6B; semaphorin Z; semaphorin VIB
Gene ID	10501
mRNA Refseq	NM_032108
Protein Refseq	NP_115484
MIM	608873
UniProt ID	Q9H3T3
Chromosome	19p13

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Location**Function**

protein binding; protein binding; protein complex binding

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