

Active Recombinant Mouse Sema6a Protein, Fc-tagged

Cat. No. SEMA6A-14874M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Sema 6A (Gly19-Thr649) Protein with Human IgG1 (Pro100-Lys330) tag was expressed in Spodoptera frugiperda, Sf 21.
Species	Mouse
Source	Insect Cells
ProteinLength	19-649 a.a.
Description	Cell surface receptor for PLXNA2 that plays an important role in cell-cell signaling. Required for normal granule cell migration in the developing cerebellum. Promotes reorganization of the actin cytoskeleton and plays an important role in axon guidance in the developing central nervous system. Can act as repulsive axon guidance cue. Has repulsive action towards migrating granular neurons. May play a role in channeling sympathetic axons into the sympathetic chains and controlling the temporal sequence of sympathetic target innervation.
Predicted N Terminal	Gly19
Bio-activity	Measured by its ability to inhibit the proliferation of HUVEC human umbilical vein endothelial cells. The ED50 for this effect is 0.2-1.2 µg/mL.
Molecular Mass	97 kDa
Endotoxin	< 0.1 EU/µg of the protein by the LAL method.

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Purity	> 90% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
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 conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in MES and NaCl with Trehalose.
Reconstitution	Reconstitute at 500 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Sema6a sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A [Mus musculus (house mouse)]
Official Symbol	Sema6a
Synonyms	Sema6a; sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A; se; Sem; VIa; Sema6; Semaq; b2b997C; AI851735; Sema6A-1; A730020P05Rik; semaphorin-6A; Mutant line 997; sema Q; sema VIA; semaphorin Q; semaphorin VIA; semaphorin-6A-1
Gene ID	20358
mRNA Refseq	NM_018744
Protein Refseq	NP_061214

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UniProt ID

O35464

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