Active Recombinant Mouse Sema7a protein, Fc-tagged

Cat. No. Sema7a-191M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Sema7a(Gln45-Ala646) fused with Fc of Mouse IgG2A(Glu98-Lys330) at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	Gln45-Ala646
Predicted N Terminal	Gln45 predicted
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 THP-1 human acute monocytic leukemia cells. Suzuki, K. et al. (2007) Nature 446:680. The ED50 for this effect is typically 0.1-0.5 μg/mL.
Molecular Mass	Predicted Molecular Mass: 95.5 (monomer) kDaSDS-PAGE: 100-110 kDa, reducing conditions
Endotoxin	<0.10 EU per 1 μg of the protein by the LAL method.
Purity	>85%, 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

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	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.
Reconstitution	Reconstitute at 500 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	Sema7a sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A [Mus musculus]
Official Symbol	Sema7a
Synonyms	SEMA7A; sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A; semaphorin-7A; sema L; sema K1; H-Sema K1; semaphorin-L; Semaphorin K1; semaphorin-K1; Semal; CDw108; H-Sema-L; M-Sema-L; 2900057C09Rik;
Gene ID	20361
mRNA Refseq	NM_011352
Protein Refseq	NP_035482
MIM	
UniProt ID	Q9QUR8

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Chromosome Location	9; 9 A3.3-B
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Other semaphorin interactions, organism-specific biosystem; Semaphorin interactions, organism-specific biosystem;
Function	integrin binding; receptor activity;

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