

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) kDa SDS-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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