

## Active Recombinant Mouse Sema3a Protein, Fc-tagged

Cat. No. Sema3a-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Semaphorin 3A (Asn21-Lys747: Arg552Ala, Arg554Ala, Arg555Ala, Arg618Ala, Lys619Ala, Lys642Ala, Lys643Ala) with a mouse IgG2A (Glu98-Lys330) Fc tag was expressed in chinese hamster ovary cell line.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>ProteinLength</b>	21-747 a.a.
<b>Description</b>	Enables chemorepellent activity; neuropilin binding activity; and semaphorin receptor binding activity. Involved in several processes, including nervous system development; positive regulation of male gonad development; and ventral trunk neural crest cell migration. Acts upstream of or within several processes, including dichotomous subdivision of terminal units involved in salivary gland branching; generation of neurons; and negative regulation of epithelial cell migration. Located in extracellular space. Is expressed in several structures, including alimentary system; central nervous system; embryo mesenchyme; metanephros; and sensory organ. Human ortholog(s) of this gene implicated in hypogonadotropic hypogonadism 16 with or without anosmia. Orthologous to human SEMA3A (semaphorin 3A).
<b>Form</b>	Disulfide-linked homodimer
<b>Bio-activity</b>	Measured by its ability to cause collapse of chick embryonic dorsal root ganglia (DRG) neuron growth cones. 20-60 ng/mL of Recombinant Mouse Semaphorin 3A Fc

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	Chimera causes > 50 % growth cone collapse in the presence 10 ng/mL Recombinant Human beta-NGF.
<b>Molecular Mass</b>	115-120 kDa, reducing conditions
<b>N-terminal Sequence Analysis</b>	Asn21
<b>Endotoxin</b>	< 1.0 EU/μg of the protein by the LAL method.
<b>Purity</b>	> 90 % by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
<b>Reconstitution</b>	Reconstitute at 100 μg/mL in PBS containing at least 0.1 % human or bovine serum albumin.
<b>Shipping</b>	The product is shipped at ambient temperature.

## GENE INFORMATION

<b>Gene Name</b>	Sema3a sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A [ Mus musculus (house mouse) ]
<b>Official Symbol</b>	Sema3a

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<b>Synonyms</b>	Sema3a; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A; SemD; SEMA1; Semad; coll-1; Hsema-I; semaphorin-3A; collapsin-1; sema D; sema III; semaphorin III; semaphorin-D
<b>Gene ID</b>	<a href="#">20346</a>
<b>mRNA Refseq</b>	<a href="#">NM_009152</a>
<b>Protein Refseq</b>	<a href="#">NP_033178</a>
<b>UniProt ID</b>	<a href="#">O08665</a>

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