

Recombinant Human SEMA3A protein, His/Fc-tagged

Cat. No. SEMA3A-852H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SEMA3A(Met 1-Val 771) fused with the His tag and Fc region of human IgG1 at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met 1-Val 771
Form	Lyophilized from sterile PBS, pH 7.4
Molecular Mass	The recombinant human SEMA3A/Fc is a disulfide-linked homodimer. The reduced monomer consists of 994 amino acids and has a predicted molecular mass of 114 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh SEMA3A/Fc monomer is approximately 170-190 kDa due to glycosylation.
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade~-70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

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GENE INFORMATION

Gene Name	SEMA3A sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A [Homo sapiens]
Official Symbol	SEMA3A
Synonyms	SEMA3A; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A; SEMAD; semaphorin-3A; coll 1; Hsema I; sema III; SEMA1; SemD; collapsin 1; semaphorin D; semaphorin L; semaphorin III; SEMAL; coll-1; Hsema-I; SEMAIII; Hsema-III; MGC133243;
Gene ID	10371
mRNA Refseq	NM_006080
Protein Refseq	NP_006071
MIM	603961
UniProt ID	Q14563
Chromosome Location	7p12.1
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CRMPs in Sema3A signaling, organism-specific biosystem; Developmental Biology, organism-specific biosystem; SEMA3A-Plexin repulsion signaling by inhibiting Integrin adhesion, organism-specific biosystem; Sema3A PAK dependent Axon repulsion, organism-specific biosystem;

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Function	chemorepellent activity; receptor activity;
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