Active Recombinant Human SEMA3A protein, Fc-tagged

Cat. No. SEMA3A-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SEMA3A protein(Lys 26 - Val 771), fused with Fc tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Lys 26 - Val 771
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	Immobilized Human Neuropilin-1, His Tag at 5 μg/mL (100 μL/well) can bind Human Semaphorin 3A, Fc Tag with a linear range of 2-78 ng/mL. Immobilized Biotinylated Human Neuropilin-1, His,Avitag at 1 μg/mL (100 μL/well) on streptavidin precoated (0.5 μg/well) plate can bind Human Semaphorin 3A, Fc Tag with a linear range of 0.6-20 ng/mL.
Molecular Mass	Molecular CharacterizationThis protein carries a human IgG1 Fc tag at the N-terminus.The protein has a calculated MW of 111.8 kDa. The protein migrates as 120-135 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.

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Storage	For long term, the product should be stored at lyophilized state at -20°C or lower.Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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

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