

Active Recombinant Human Sema Domain, Immunoglobulin Domain(Ig), Transmembrane Domain(TM) And Short Cytoplasmic Domain,(semaphorin) 4A, His-tagged

Cat. No. SEMA4A-7022H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human SEMA4A extracellular domain (Met 1 - His 683) was expressed, with a polyhistidine tag at the C-terminus. It consists of 663 amino acids and predicts a molecular mass of 73.4 kDa.
Species	Human
Source	Human Cells
ProteinLength	663aa
Description	SEMA4A is a single-pass type I membrane protein which belongs to the semaphorin family. It inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. SEMA4A contains one Ig-like C2-type (immunoglobulin-like) domain, one PSI domain and one Sema domain.
Predicted N Terminal	Gly 32
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Bio-activity	Measured by its ability to bind biotinylated mouse SEMA4D in a functional ELISA.

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Molecular Mass	The recombinant human SEMA4A consists of 663 amino acids and predicts a molecular mass of 73.4 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh SEMA4A is approximately 75-80 kDa.
Endotoxin	1.0 eu/μg of the protein as determined by the lal
Purity	>96 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	SEMA4A sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A [Homo sapiens]
Official Symbol	SEMA4A
Synonyms	SEMA4A; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A; SEMAB; semaphorin-4A; FLJ12287; SemB; sema B; semaphorin-B; RP35; SEMB; CORD10; RP11-54H19.2;
Gene ID	64218
mRNA Refseq	NM_001193300
Protein Refseq	NP_001180229
MIM	607292

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UniProt ID	Q9H3S1
Chromosome Location	1q22
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	receptor activity;
SEMA4A protein	