

Active Recombinant Human SEMA4D, HIgG1 Fc-tagged

Cat. No. SEMA4D-512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human CD100 (AAH54500.1) (Met22-Arg734) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell
Species	Human
Source	CHO
Protein Length	22-734 a.a.
Description	SEMA4D (sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D) is a protein-coding gene. Diseases associated with SEMA4D include soft tissue sarcoma, and cleft palate, and among its related super-pathways are Sema4D in semaphorin signaling and Axon guidance. GO annotations related to this gene include transmembrane signaling receptor activity and receptor binding. An important paralog of this gene is SEMA3C.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit survival of SK OV 3 human ovarian carcinoma cells.
Molecular Mass	105KDa (monomer)
AA Sequence	Met22-Arg734
Endotoxin	<0.06 eu/µg="" as="" determined="" by="" lal="" test="">

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Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Reconstitution	Reconstitute at 100µg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	SEMA4D sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [Homo sapiens]
Official Symbol	SEMA4D
Synonyms	SEMA4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D; C9orf164, chromosome 9 open reading frame 164 , SEMAJ; semaphorin-4D; CD100; coll 4; FLJ39737; M sema G; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D; SEMAJ; coll-4; C9orf164; M-sema-G; FLJ33485; FLJ34282; FLJ46484; MGC169138; MGC169141;
Gene ID	10507
mRNA Refseq	NM_001142287
Protein Refseq	NP_001135759
MIM	601866

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UniProt ID	Q92854
Chromosome Location	9q22-q31
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Sema4D in semaphorin signaling, organism-specific biosystem; Sema4D induced cell migration and growth-cone collapse, organism-specific biosystem; Sema4D mediated inhibition of cell attachment and migration, organism-specific biosystem;
Function	protein binding; receptor activity; receptor binding; semaphorin receptor binding; transmembrane signaling receptor activity;

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