

Recombinant Human SEMA4D

Cat. No. SEMA4D-29694TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 24-734 of Human Semaphorin 4D; 711 amino acids, MWt 78.9 kDa.
Species	Human
Source	CHO
ProteinLength	711 amino acids
Description	Semaphorin-4D (SEMA4D) also known as Cluster of Differentiation 100 (CD100), is a protein of the semaphorin family that in humans is encoded by the SEMA4D gene.
Molecular Weight	78.900kDa
Tissue specificity	Strongly expressed in skeletal muscle, peripheral blood lymphocytes, spleen, and thymus and also expressed at lower levels in testes, brain, kidney, small intestine, prostate, heart, placenta, lung and pancreas, but not in colon and liver.
Form	Lyophilised
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10mM Sodium phosphate, pH 7.5
Storage	The lyophilized protein is stable at room temperature for up to 1 month. Working

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aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles. See reconstitution notes

Sequences of amino acids

FAPIPRITWE HREVHLVQFH EPDIYNYSAL LLSSEDKDTLY IGAREAVFAV
 NALNISEKQH EVYWKVSEDK KAKCAEKGKS KQTECLNYIR VLQPLSATSL
 YVCGTNAFQP ACDHLNLTSE KFLGKNEDGK GRCPFDPAHS YTSVMVDGEL
 YSGTSYNFLG SEPIISRNSS HSPLRTEYAI PWLNESFVF ADVIRKSPDS
 PDGEDDRVYF FFTEVSVEYE FVFRVLIPRI ARVCKGDQGG LRTLQKKWTS
 FLKARLICSR PDSGLVFNVL RDVFVLRSPG LKVPVFYALF TPQLNNVGLS
 AVCAYNLSTA EEVFSHGKYM QSTTVEQSHT KWVRYNGPVP KPRPGACIDS
 EARAANYTSS LNLDPKTLQF VKDHPLMDDS VTPIDNRPRIL IKKDVNYTQI
 VVDRTQALDG TVYDVMFVST DRGALHKAIS LEHAVHIIIE TQLFQDFEPV
 QTLILLSSKKG NRFVYAGSNS GVVQAPLAFK GKHGTCEDCV LARDPYCAWS
 PPTATCVALH QTESPSRGLI QEMSGDASVC PDKSKGSYRQ HFFKHGGTAE
 LKCSQKSNLA RVFWKFQNGV LKAESPKYGL MGRKNLLIFN LSEGDSGVYQ
 CLSEERVKNK TVFQVVAHV LEVKVVPKPV VAPTLVSVQT EGSRIATKVL
 VASTQGSSPP TPAVQATSSG AITLPPKPAP TGTSCPEKIV INTVPQLHSE
 KTMYLKSSDN R

Sequence

Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like)

Similarities

domain. Contains 1 PSI domain. Contains 1 Sema domain.

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)

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	and short cytoplasmic domain, (semaphorin) 4D; C9orf164, chromosome 9 open reading frame 164 , SEMAJ; semaphorin-4D; CD100; coll 4; FLJ39737; M sema G;
Gene ID	10507
mRNA Refseq	NM_001142287
Protein Refseq	NP_001135759
MIM	601866
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;
Function	receptor activity; receptor binding;