

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;