Recombinant Human SEMA4D Protein, 22-734aa, C-hIgG-His tagged

Cat. No. SEMA4D-04H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human semaphorin-4D (22-734aa), fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	22-734aa
Description	Semaphorin4D, also known as CD100, is a member of the Class 4 family of transmembrane immune and nervous system semaphorins. It is an important mediator of the movement and differentiation of multiple cell types, including those of the immune, vascular, and nervous systems. It serves important roles in T cell priming, antibody production, and cell-to-cell adhesion. Sema4D, produced by T cells, activated B cells and dendritic cells acts through a low affinity receptor termed CD72 in the immune system. Unligated CD72 inhibits antigen presenting cells that express it, and this inhibition is relieved by Sema4D binding. It is reflected in its ability to inhibit ovarian carcinoma cell survival.
Form	Liquid
Molecular Mass	106.1 kDa (952aa)

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AA Sequence	MAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNALNISE KQHEVYWKVSEDKKAKCAEKGKSKQTECLNYIRVLQPLSATSLYVCGTNAFQPACD HLNLTSFKFLGKNEDGKGRCPFDPAHSYTSVMVDGELYSGTSYNFLGSEPIISRNSS HSPLRTEYAIPWLNEPSFVFADVIRKSPDSPDGEDDRVYFFFTEVSVEYEFVFRVLIP RIARVCKGDQGGLRTLQKKWTSFLKARLICSRPDSGLVFNVLRDVFVLRSPGLKVPV FYALFTPQLNNVGLSAVCAYNLSTAEEVFSHGKYMQSTTVEQSHTKWVRYNGPVPK PRPGACIDSEARAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRPRLIKKDVNYT QIVVDRTQALDGTVYDVMFVSTDRGALHKAISLEHAVHIIEETQLFQDFEPVQTLLLS SKKGNRFVYAGSNSGVVQAPLAFCGKHGTCEDCVLARDPYCAWSPPTATCVALHQ TESPSRGLIQEMSGDASVCPDKSKGSYRQHFFKHGGTAELKCSQKSNLARVFWKF QNGVLKAESPKYGLMGRKNLLIFNLSEGDSGVYQCLSEERVKNKTVFQVVAKHVLE VKVVPKPVVAPTLSVVQTEGSRIATKVLVASTQGSSPPTPAVQATSSGAITLPPKPAP TGTSCEPKIVINTVPQLHSEKTMYLKSSDNR
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

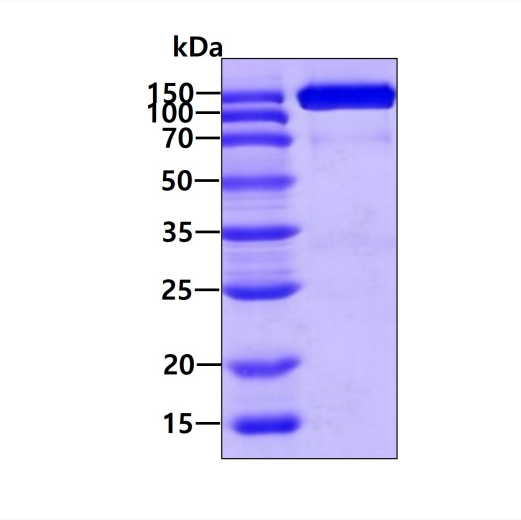
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References	1. Kumanogoh, A. and H. Kikutani (2004) Cell. Mol. Life Sci. 61:292-300. 2. Janssen, B.J.C. et al. (2010) Nature 467:1118-1122. 3. Kumanogoh, A. et al. (2005) Int. Immunol. 17:1277-1282. 4. Ishida, I. et al. (2003) Int. Immunol. 15:1027-1034.

GENE INFORMATION

Gene Name	SEMA4D sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [Homo sapiens (human)]
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_006378
Protein Refseq	NP_006369
MIM	601866
UniProt ID	Q92854

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SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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