

Product datasheet for **TP723388**

Semaphorin 4D (SEMA4D) (NM_006378) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D (SEMA4D), transcript variant 1.
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	FAIPRITWE HREVHLVQFH EPDIYNYSAL LLSSEDKDTLY IGAREAVFAV NALNISEKQH EVYWKVSEDK KAKCAEKGKS KQTECLNYIR VLQPLSATS L YVCGTNAFQP ACDHLNLT SF KFLGKNEDGK GRCPFDP AHS YTSVMVDGEL YSGTSYNFLG SEPIISRNSS HSPLRTEYAI P WLN E P S F V F A D V I R K S P D S P D G E D D R V Y F F F T E V S V E Y E F V F R V L I P R I A R V C K G D Q G G L R T L Q K K W T S F L K A R L I C S R P D S G L V F N V L R D V F V L R S P G L K V P V F Y A L F T P Q L N N V G L S A V C A Y N L S T A E E V F S H G K Y M Q S T T V E Q S H T K W V R Y N G P V P K P R P G A C I D S E A R A A N Y T S S L N L P D K T L Q F V K D H P L M D D S V T P I D N R P R L I K K D V N Y T Q I V D R T Q A L D G T V Y D V M F V S T D R G A L H K A I S L E H A V H I I E E T Q L F Q D F E P V Q T L L L S S K K G N R F V Y A G S N S G V V Q A P L A F C G K H G T C E D C V L A R D P Y C A W S P P T A T C V A L H Q T E S P S R G L I Q E M S G D A S V C P D K S K G S Y R Q H F F K H G G T A E L K C S Q K S N L A R V F W K F Q N G V L K A E S P K Y G L M G R K N L L I F N L S E G D S G V Y Q C L S E E R V K N K T V F Q W A K H V L E V K V V P K P V V A P T L S V V Q T E G S R I A T K V L V A S T Q G S S P P T P A V Q A T S S G A I T L P P K P A P T G T S C E P K I V I N T V P Q L H S E K T M Y L K S S D N R
Tag:	Tag Free
Predicted MW:	78.9 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Measured by its ability to inhibit chemokine (hMCP-3) induced human monocyte migration.
Endotoxin:	Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_006369



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Locus ID:	10507
UniProt ID:	Q92854
RefSeq Size:	4642
Cytogenetics:	9q22.2
RefSeq ORF:	2586
Synonyms:	A8; BB18; C9orf164; CD100; coll-4; COLL4; GR3; M-sema-G; SEMAJ
Summary:	<p>Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling (PubMed:20877282). Regulates GABAergic synapse development (By similarity). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner (By similarity). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA (PubMed:19788569). Promotes the migration of cerebellar granule cells (PubMed:16055703). Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro) (PubMed:8876214). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway (PubMed:16055703). [UniProtKB/Swiss-Prot Function]</p>
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance