

Datasheet for ABIN2469029
SEMA4D/CD100 Protein (Soluble)



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Overview

Quantity:	0.005 mg
Target:	SEMA4D/CD100 (SEMA4D)
Protein Characteristics:	Soluble
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	FAPIPRITWE HREVHLVQFH EPDIYNYSAL LLSSEKDTLY IGAREAVFAV NALNISEKQH EVYWKVSEDK KAKCAEKGKS KQTECLNYIR VLQPLSATSL YVCGTNAFQP ACDHLNLTSE KFLGKNEDGK GRCPFDPAHS YTSVMVDGEL YSGTSYNFLG SEPIISRNSS HSPLRTEYAI PWLNEPSFVF ADVIRKSPDS PDGEDDRVYF FFTEVSVEYE FVFRVLIPRI ARVCKGDQGG LRTLQKKWTS FLKARLICSR PDSGLVFNVL RDVFVLRSPG LKVPVFYALF TPQLNNVGLS AVCAYNLSTA EEVFSHGKYM QSTTVEQSHT KWKRYNGPVP KPRPGACIDS EARAANYTSS LNLDPKTLQF VKDHPLMDDS VTPIDNRPR L IKKDVNYTQI VVDRTQALDG TVYDVMFVST DRGALHKAIS LEHAVHIIIE TQLFQDFEPV QTLLSSSKKG NRFVYAGSNS GVVQAPLAF C GKHGTCEDCV LARDPYCAWS PPTATCVALH QTESPSRGLI QEMSGDASVC PDKSKGSYRQ HFFKHGGTAE LKCSQKSNLA RVFWKFQNGV LKAESPKYGL MGRKNLLIFN LSEGDSGVYQ CLSEERVKNK TVFQVVAKHV LEVKVVPKPV VAPTLVSVQT EGSRIATKVL VASTQGSSPP TPAVQATSSG AITLPPKPAP TGTSCPEKIV INTVPQLHSE KTMYLKSSDN R
Characteristics:	Endotoxin level is less than 0.1 ng per ug (1EU/μg).

Product Details

Purity:	< 97 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per ug (1 EU/μg).

Target Details

Target:	SEMA4D/CD100 (SEMA4D)
Alternative Name:	CD100 (SEMA4D Products)
Background:	The Semphorins are a large family of phylogenetically conserved proteins that play a pivotal role in maintaining homeostasis in the immune system. Twenty members of this family have been identified and categorized into eight subclasses based on sequence similarity and distinctive structural features. CD100, also known as Sema4D, is a 150 kDa transmembrane class IV semaphorin. Studies have shown that CD100 can induce monocyte migration, T-cell activation, and B-cell survival, as well as T/B cell and T/DC "cooperation" . The CD100 precursor contains 862 amino acids, including a 21 a.a. signal sequence, a 713 a.a. extracellular domain, a 21 a.a transmembrane sequence, and a 107 a.a cytoplasmic region. The extracellular sequence contains several structural features, including a 479 a.a "sema domain, a 79 a.a. Ig-like sequence, and a 52 a.a "Plexin-type repeat" . Recombinant soluble CD100 is a 78.9 kDa protein comprising the extracellular domain of CD100 (711 amino acids). SDS-PAGE analysis run under non-reducing conditions shows a mixture of disulfide linked dimer and monomer.
Gene ID:	10507
NCBI Accession:	NP_006369
OMIM:	214010218
UniProt:	Q92854
Pathways:	Regulation of Cell Size

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing sCD100 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant

Handling

	protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted sCD100 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months