

32-20640: Recombinant Human sCD100(Discontinued)

Reactivity : Human

Alternative Name : soluble CD100, Semaphorin-4D, BB18, A8, GR3

Description

Source:CHO cells

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 amino acids signal sequence, a 713 amino acids extracellular domain, a 21 amino acids transmembrane sequence, and a 107 amino acids cytoplasmic region. The extracellular sequence contains several structural features, including a 479 amino acids "sema" domain, a 79 amino acids Ig-like sequence, and a 52 amino acids "Plexin-type repeat". Recombinant Human 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.

Product Info

Amount : 5 µg / 20 µg

Purification : Purity:>= 97% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : FAPIPRITWE HREVLVQFH EPDIYNYSAL LLSSEKDTLY IGAREAVFAV NALNISEKQH
EYVWKVSEDK KAKCAEKGKS KQTECLNYIR VLQPLSATSL YVCGTNAFQP ACDHLNLTSE
KFLGKNEDGK GRCPFDPAHS YTSVMVDGEL YSGTSYNFLG SEPIISRNSS HSPLRTEYAI
PWLNEPSFVF ADVIRKSPDS PDGEDDRVYF FFTEVSVEYE FVFRVLIPRI ARVCKGDQGG
LRTLQKKWTS FLKARLICSR PDSGLVFNVL RDVFVLRSPG LKVPVIFYALF TPQLNNVGLS
AVCAYNLSTA EEVFSHGKYM QSTTVEQSHT KWVRYNGPVP KPRPGACIDS EARAANYTSS
LNLDPKTLQF VKDHPLMDDS VTPIDNRPRIL IKKDVNYTQI VVDRTQALDG TVYDVMFVST
DRGALHKAIS LEHAVHIIIE TQLFQDFEPV QTLLLSSKKG NRFVYAGSNS GVVQAPLAF
GKHGTCEDCV LARDPYCAWS PPTATCVALH QTESPSRGLI QEMSGDASVC PDKSKGSYRQ
HFFKHGGTAE LKCSQKSNLA RVFWKFQNGV LKAESPKYGL MGRKNLLIFN LSEGDGSGVYQ
CLSEERVKNK TVFQVVAHV LEVKVVPKPV VAPTLSVVQT EGSRIATKVL VASTQGSSPP
TPAVQATSSG AITLPPKPAP TGTSCPEKIV INTVPQLHSE KTMYLKSSDN R

Application Note

Measured by its ability to inhibit chemokine (hMCP-3) induced human monocyte migration.