

32-3485: CD100 Recombinant Protein

Alternative Name : Thesemaphorin family containing 1 Ig-like C2-type domain,1 PSI domain and 1 Sema domain, Semaphorin-4D, A8, BB18, GR3, SEMA4D, C9orf164, CD100, SEMAJ.

Description

Source : HEK293 cells. CD100 Human Recombinant produced by mammalian expression system in human cells is a single polypeptide chain containing 721 amino acids (22-734). CD100 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques. Semaphorin-4D (CD100) is a member of the semaphorin family containing 1 Ig-like C2-type domain, 1 PSI domain and 1 Sema domain. CD100 is the cell surface receptor for PLXN1B and PLXNB2 which plays a central role in cell-cell signaling. CD100 stimulates the migration of cerebellar granule cells and of endothelial cells, regulates dendrite and axon branching and morphogenesis. In addition, CD100 has a role in the immune system; it promotes signaling via SRC and PTK2B/PYK2, which subsequently mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade.

Product Info

Amount : 20 µg
Purification : Greater than 95% as determined by SDS-PAGE.
Content : CD100 was lyophilized from a 0.2 mM filtered solution of 20mM PB and 150mM NaCl, PH 7.4.
Storage condition : Lyophilized CD100 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CD100 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Amino Acid : MAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKKAK
 CAEKGKSKQTECLNYIRVLQPLSATSLYVCGTNAFQACDHLNLTSEKFLGKNEDGKGRCPFDPAHSYTSVMV
 DGELYSYSGTSYNFLGSEPIISRNSHSPRLTEYAIPWLNPSFVFADVIRKSPDSDGEDDRVYFFFTVEVSVEYEFV
 FRVLIPRIARVCKGDQGGRLTLQKKWTSFLKARLICSRLPDSGLVFNVLRLDVFVLRSPGLKVPVFYALFTPQLNNV
 GLSAVCAYNLSTAEVFSHGKYMSTTVEQSHTKWVRYNGVPKPRPGACIDSEARAANYTSSLNLPDKTLQF
 VKDHPLMDDSVTPIDNRPLIKKDVNYTQIVVDRTQALDGTVDVDFVSTDRGALHKAISLEHAVHIIETQLFQ
 DFEPVQTLTLLSSKKGNRFVYAGSNGSVVQAPLAFCGKHGTCEDCVLARDPYCAWSPPTATCVALHQTESPSRG
 LIQEMSGDASVCPDKSGSYRQHFFKHGGTAEKCSQKSNSEKTMYLKSSDNRVDHHHHHHH.

Application Note

It is recommended to reconstitute the lyophilized CCD100 in 1xPBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

