

Datasheet for ABIN1880681
SEMA4D/CD100 Protein (AA 22-734) (His tag)



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Overview

Quantity:	50 µg
Target:	SEMA4D/CD100 (SEMA4D)
Protein Characteristics:	AA 22-734
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA4D/CD100 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Semaphorin-4D/SEMA4D/CD100 (C-6His)
Sequence:	MAFAIPRIT WEHREVHLVQ FHEPDIYNYS ALLLSEDKDT LYIGAREAVF AVNALNISEK QHEVYWKVSE DKKAKCAEKG KSKQTECLNY IRVLQPLSAT SLYVCGTNAF QPACDHLNLT SFKFLGKNED GKGRCPPDPA HSYTSVMVDG ELYSGTSYNF LGSEPIISRN SSHSPLRTEY AIPWLNESF VFADVIRKSP DSPDGEDDRV YFFFTEVSVE YEFVFRVLIP RIARVCKGDQ GGLRTLQKKW TSFLKARLIC SRPDSGLVFN VLRDVFVLR S PGLKVPVFYA LFTPQLNNVG LSAVCAYNLS TAEVFSHGK YMQSTTVEQS HTKWVRYNGP VPKPRPGACI DSEARAANYT SSLNLPDKTL QFVKDHPLMD DSVTPIDNRP RLIKKDVNYT QIVVDRTQAL DGTVYDVMFV STDRGALHKA ISLEHAVHII EETQLFQDFE PVQTL LSSK KGNRFVYAGS NSGVVQAPLA FCGKHGT CED CVLARDPYCA WSPPTATCVA LHQTESPSRG LIQEMSGDAS VCPDKSKGSY RQHFFKHGGT AELKCSQKSN LARVFWKFQN DVLKAESPKY GLMGRKNLLI FNLSEGDSGV YQCLSEERVK NKTVFQVVAK HVLEVKVVPK PVVAPTLSVV QTEGSRIATK VLVASTQGSS PPTPAVQATS SGAILPPKP APTGTSCPEK IVINTVQLH SEKTMYLKSS DNRVDHHHHH H

Product Details

Characteristics: Recombinant Human Semaphorin 4D/CD100 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met22-Arg734) of Human CD100 fused with a polyhistidine tag at the C-terminus.

Purity: > 95 % as determined by reducing SDS-PAGE.

Sterility: 0.2 µm filtered

Endotoxin Level: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target: SEMA4D/CD100 (SEMA4D)

Alternative Name: Semaphorin 4D/CD100 ([SEMA4D Products](#))

Sub Type: Fusionprotein

Background: Semaphorin-4D is also known as A8,BB18, GR3, CD100. Semaphorin-4D belongs to the semaphorin family containing 1 Ig-like C2-type domain, 1 PSI domain and 1 Sema domain. It is the cell surface receptor for PLXN1B and PLXNB2 that plays an important role in cell-cell signaling. It promotes the migration of cerebellar granule cells and of endothelial cells, regulates dendrite and axon branching and morphogenesis. Semaphorin-4D Plays a role in the immune system, Promotes signaling via SRC and PTK2B/PYK2, which then mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade.

Alternative Names: Semaphorin-4D is also known as A8,BB18, GR3, CD100. Semaphorin-4D belongs to the semaphorin family containing 1 Ig-like C2-type domain, 1 PSI domain and 1 Sema domain.

Molecular Weight: 80.2 kDa

UniProt: [Q92854](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 µg/mL.

Handling

Dissolve the lyophilized protein in ddH₂O.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months