Semaphorin-4D/SEMA4D Protein, Human (713a.a, HEK293, His)

Cat. No.:	HY-P7774
Synonyms:	rHuCD100, His; Semaphorin-4D; A8; BB18; GR3; CD100
Species:	Human
Source:	HEK293
Accession:	Q92854 (M22-R734)
Gene ID:	10507
Molecular Weight:	Approximately 112 kDa

PROPERTIES

AA Sequence	MAFAPIPRIT WEHREVHLVQ FHEPDIYNYS ALLLSEDKDT LYIGAREAVF AVNALNISEK QHEVYWKVSE DKKAKCAEKG KSKQTECLNY IRVLQPLSAT SLYVCGTNAF QPACDHLNLT SFKFLGKNED GKGRCPFDPA HSYTSVMVDG ELYSGTSYNF LGSEPIISRN SSHSPLRTEY AIPWLNEPSF VFADVIRKSP DSPDGEDDRV YFFFTEVSVE YEFVFRVLIP RIARVCKGDQ GGLRTLQKKW TSFLKARLIC SRPDSGLVFN VLRDVFVLRS PGLKVPVFYA LFTPQLNNVG LSAVCAYNLS TAEEVFSHGK YMQSTTVEQS HTKWVRYNGP VPKPRPGACI DSEARAANYT SSLNLPDKTL QFVKDHPLMD DSVTPIDNRP RLIKKDVNYT QIVVDRTQAL DGTVYDVMFV STDRGALHKA ISLEHAVHII EETQLFQDFE PVQTLLLSSK KGNRFVYAGS NSGVVQAPLA FCGKHGTCED CVLARDPYCA WSPPTATCVA LHQTESPSRG LIQEMSGDAS VCPDKSKGSY RQHFFKHGGT AELKCSQKSN LARVFWKFQN GVLKAESPKY GLMGRKNLLI FNLSEGDSGV YQCLSEERVK NKTVFQVVAK HVLEVKVVPK PVVAPTLSVV QTEGSRIATK VLVASTQGSS PPTPAVQATS SGAITLPPKP APTGTSCEPK IVINTVPQLH SEKTMYLKSS DNRHHHHHH
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Semaphorin 4D, Sema4D, or CD100 belongs to semaphorin class 4 and is one of the so called “immune semaphorins”. Produced by the majority of hematopoietic cells including B and T lymphocytes, natural killer and myeloid cells, as well as endothelial cells, CD100 exerts its actions by binding to different receptors depending on the cell type and on the organism. In addition to being expressed in the membrane, CD100 is also found in a soluble form (sCD100), generated from membrane CD100 (mCD100) by proteolytic cleavage in an activation-dependent manner[1].

REFERENCES

[1]. Maria C A Luque, et al. CD100 Effects in Macrophages and Its Roles in Atherosclerosis. Front Cardiovasc Med. 2018 Sep 28;5:136.

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