

Recombinant human Semaphorin 4D/CD100 protein

ab168894

1 Image

Description

Product name	Recombinant human Semaphorin 4D/CD100 protein		
Biological activity	Measured by its ability to promote the survival and differentiation of Human peripheral blood monocytes. The ED ₅₀ for this effect is typically 2.0-6.3 µg/ml.		
Purity	> 95 % SDS-PAGE.		
Endotoxin level	< 1.000 Eu/µg		
Expression system	HEK 293 cells		
Accession	<u>Q92854</u>		
Protein length	Protein fragment		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	MAFAIPRITWEHREVLVQFHEPDIYNYSALLLSEDKDTL YIGAREAVF AVNALNISEKQHEVYWKVSEDKKAKCAEKGKSKQTECLN YIRVLQPLSAT SLYVCGTNAFQPACDHLNLTsfkFLGKNEDGKGRCPPDP AHSYTSVMVDG ELYSGTSYNFLGSEPIISRNSSHSPLRTEYAIPWLNEPSFVF ADVIRKSP DSPDGEDDRVYFFTEVSVEYEFVFRVLIPRIARVCKGDQ GGLRTLQKKW TSFLKARLICSRPDSGLVFNVLRDVFVLRSPGLKVPVFYA LFTPQLNNVG LSAVCAYNLSTAEVFSHGKYMqSTTVEQSHTKWVRYNG PVPKPRPGACI DSEARAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRP RLIKKDVNYT QMVDRtQALDGTvyDVMFVSTDRGALHKAISLEHAVHIIE TQLFQDFE PVQTLllSSKKGNRFVYAGSNSGVVQAPLAFcGKHGTCE DCVLARDPYCA		

WSPPTATCVALHQTESPSRGLIQEMSGDASVCPDKSKG
SYRQHFFKHGGT
AELKCSQKSNLARVFWKFQNDVLKAESPKYGLMGRKNLL
IFNLSEGD SGV
YQCLSEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTLSV
VQTEGSRIATK
VLVASTQGSSPPTPAVQATSSGAILPPKPAPTGTSCPEKI
VINTVPQLH SEKTMYLKSSDNR

Predicted molecular weight	105 kDa
Amino acids	22 to 734

Specifications

Our **Abpromise guarantee** covers the use of **ab168894** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Lyophilized
Additional notes	This product was previously labelled as Semaphorin 4D

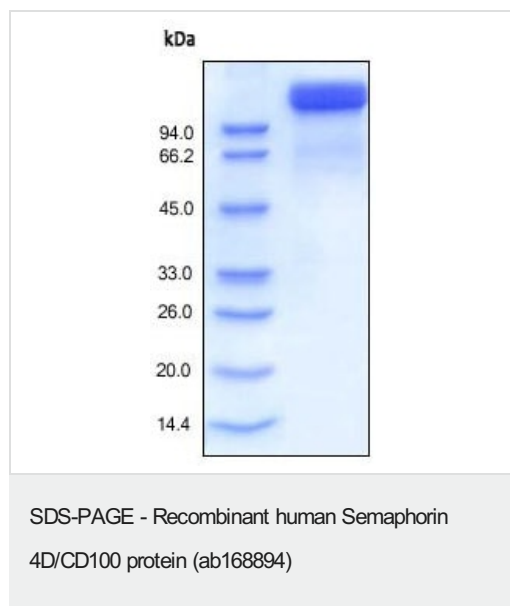
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C. pH: 7.4 Constituents: 5% Trehalose, 0.75% Glycine, 0.61% Tris This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 250 ug/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

General Info

Function	May play a functional role in the immune system, as well as in the nervous system. Induces B-cells to aggregate and improves their viability in vitro.
Tissue specificity	Strongly expressed in skeletal muscle, peripheral blood lymphocytes, spleen, and thymus and also expressed at lower levels in testes, brain, kidney, small intestine, prostate, heart, placenta, lung and pancreas, but not in colon and liver.
Sequence similarities	Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 PSI domain. Contains 1 Sema domain.
Cellular localization	Membrane.

Images



SDS-PAGE analysis of ab168894 stained overnight with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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