

## 32-7916: Recombinant Human Semaphorin-4D/SEMA4D/CD100 (C-6His)

**Gene :** SEMA4D  
**Gene ID :** 10507  
**Uniprot ID :** Q92854

### Description

Source: Human Cells.  
MW :80.2kD.

Recombinant Human Semaphorin 4D is produced by our Mammalian expression system and the target gene encoding Met22-Arg734 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl, pH 7.4.  
**Storage condition :** 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.  
**Amino Acid :** MAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNALNISEKQHEVYWKVSEDKKAK  
CAEKGKSKQTECLNYIRVLQPLSATSLYVCGTNAFQPACDHLNLTsfkFLGKNEGDGKGRCPDFPAHSYTSVMV  
DGELYSGTSYNFLGSEPIISRNSHSPLRTEYAIPWLNPEsfVfADVIRKSPDspDGEDDRVYFFFEVSVVEYEFV  
FRVLIPIRIARVCKGDQGGRLTLQKKWTSFLKARLICSRPDSGLVFNVLRDVFLRSPGLKVPVFYALFTPQLNNV  
GLSAVCAYNLSTAEVFSHGKYMSTTVEQSHTKWVRYNGPVPKPRPGACIDSEARAANYTSSLNLPDKTLQF  
VKDHPLMDDSVTPIDNRPRIKKDVNYTQIVVDRTQALDGTVDYDVMFVSTDRGALHKAISLEHAVHIIETQLFQ  
DFEPVQTLTLLSSKKGNRVYAGSNGVVQAPLAFCGKHGTCEDCVLARDPYCAWSPPTATCVALHQTESPSRG  
LIQEMSGDASVCPDKSKGSYRQHFFKHGGTAELKCSQKSNLARVFWKFNQDVLKAESPKYGLMGRKNLLIFNL  
SEGDSGVYQCLSEERVKNKTVFQVVAKHVLEVKVVPKPVVAPTLSVVQTEGSRIATKVLVASTQGSSPPTPAVQ  
ATSSGAILPCKPAPTGTSCPEKIVINTVPQLHSEKTMYLKSSDNRVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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