

## 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 :** MAFAPIPRITWEHREVHLVQFHEPDIYNYSALLLSEDKDTLYIGAREAVFAVNALNISEKQHEVYWK  
VSEDKKAKCAEKGSKQTECLNYIRVLQPLSATSPLYVCGTNAFQACDHLNLTSEKFLGKNGEDGKG  
RCPFDPAHSYTSVMVDGELYSGTSYNFLGSEPIISRNSSHSPRTEYAIPWLNPSFVFADVIRKSP  
DSPDGEDDRVYFFFEVSVEYEFVFRVLIPRIARVCKGDQGGRLTLQKKWTSFLKARLICSRPDSG  
LVFNVLRDVFLRSPGLKVPVFYALFTPQLNNVGLSAVCAYNLSTAEVFSHGKYMQSTTVEQSHT  
KWVRYNGPVPKPRPGACIDSEARAANYTSSLNLPDKTLQFVKDHPLMDDSVTPIDNRPRLIKDVDN  
YTQIVVDRTQALDGTVDVFMFVSTDRGALHKAISLEHAVHIEETQLFQDFEPVQTLTLLSSKKGNRFV  
YAGSNSGVVQAPLAFCGKHGTCEDCVLARDPYCAWSPPTATCVALHQTESPSRGLIQEMSGDAS  
VCPDKSKGSYRQHFFKHGGTAELKCSQKSNLARVFWKFQNDVLKAESPKYGLMGRKNLLIFNLSE  
GDSGVYQCLSEERVKNKTVFQVVAHVLEVKVVPKPVVAPTLSVVQTEGSRIATKVLVASTQGSSP  
PTPAVQATSSGAILPPKPAPTGTSCPEKIVINTVPQLHSEKTMYLKSSDNRVDHHHHHH

### 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 Åµg/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/Åµg (1 IEU/Åµg) as determined by LAL test.