

## Recombinant Human SEMA4G, His-tagged

Cat. No. SEMA4G-185H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Semaphorin 4G/SEMA4G is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Val18-Leu680) of Human SEMA4G fused with a polyhistidine tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	18-680 a.a.
<b>Description</b>	Semaphorin-4G is the least characterized of the seven known Class 4 transmembrane semaphorin glycoproteins. Class 4 semaphorins play multiple roles in cell attraction or repulsion, such as development of nerve pathways in the brain, promoting or inhibiting proliferation, in some cases organizing immune cell interactions. Semaphorin-4G can be expressed early in development in the central and peripheral nervous systems and in sensory organs, such as cochlea, olfactory epithelium, vomeronasal organ and retina. In adults, Semaphorin-4G can be found in liver, kidney and brain. The human Semaphorin-4G precursor consists of a 17 amino acids signal sequence, a 658 amino acids extracellular domain, a 21 amino acids transmembrane domain, a 142 amino acids cytoplasmic domain with one Ser/Thr phosphorylation site.
<b>Form</b>	Lyophilized from a 0.2 μM filtered solution of 20mM PB, 150mM NaCl, pH 7.4
<b>AA Sequence</b>	VPGPSLRRPSRELDATPRMTIPYEELSGTRHFKGQAQNYSTLLLEEASARLLVGARG

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ALFSLSAN DIGDGAHKEIHWEASPEMQSKCHQKKGKNNQTECFNHVRFLQRLNSTH  
 LYACGTHAFQPLCAAIDA EAFTLPTSFEEGKEKCPYDPARGFTGLIIDGGLYTATRYE  
 FRSIPDIRRSRHPHSLRTEETPMHW LNDAEFVFSVLVRESKASAVGDDDKVYYFFT  
 ERATEEGSGSFTQSRSSHVARVARVCKGDLGGK KILQKKWTSFLKARLICHIPLEYE  
 TLRGVCSLDAETSSRTHFYAAFTLSTQWKTLEASAICRYDLA EIQAVFAGPYMEYQD  
 GSRRWGRYEGGVPEPRPGSCITDSLRSQGYNSSQDLPSLVLDVFKLHPLM ARPVV  
 PTRGRPLLLKRNIRYTHLTGTPVTTAGPTYDLLFLGTADGWIHKAVVLGSGMHIIIE  
 TQ VFRESQSVENLVISLLQHSLYVGAPSGVIQLPLSSCSRYRSCYDCILARDPYCGW  
 DPGTHACAAA TTIANRSQGSRTALIQDIERNRGCESSRDTGPPPPLKTRSVLRGD  
 DVLLPCDQPSNLARALWLL NGSMGLSDGQGGYRVGVDGLLVTDAPQPEHSGNYGC  
 YAEENGLRLLASYSLTVRPATPAPAPKAP ATPGAQLAPDVRLVDHHHHHH

**Endotoxin** Less than 0.1 ng/μg (1 IEU/μg).

**Purity** Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

**Storage** Lyophilized protein should be stored at Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at

**Reconstitution** 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 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** SEMA4G sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G [ Homo sapiens ]

**Official Symbol** SEMA4G

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**Synonyms**

SEMA4G; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4G;

**Gene ID**

10504

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