

Recombinant Human SEMA4G, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
ProteinLength	18-680 a.a.
Description	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.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.4
AA Sequence	VPGPSLRRPSRELDATPRMTIPYEELSGTRHFKGQAQNYSTLLLEEASARLLVGARG

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ALFSLSAN DIGDGAHKEIHWEASPEMQSKCHQKGKNNQTECFNHVRFLQRLNSTH
 LYACGTHAFQPLCAAIDA EAFTLPTSFEEGKEKCPYDPARGFTGLIIDGGGLYTATRYE
 FRSIPDIRRSRHPHSLRTEETPMHW LNDAEFVFSVLVRESKASAVGDDDKVYYFFT
 ERATEEGSGSFTQSRSSHVARVARVCKGDLGGK KILQKKWTSFLKARLICHIPLYE
 TLRGVCSLDAETSSRTHFYAAFTLSTQWKTLEASAICRYDLA EIQAVFAGPYMEYQD
 GSRRWGRYEGGVPEPRPGSCITDSLRSQGYNSSQDLPSLVLDVFKLHPLM ARPVV
 PTRGRPLLLKRNIRYTHLTGTPVTTAGPTYDLLFLGTADGWIHKAVVLGSGMHIIIE
 TQ VFRESQSVENLVISLLQHSLYVGAPSGVIQLPLSSCSRYRSCYDCILARDPYCGW
 DPGTHACAAA TTIANRSQGSRTALIQDIERNRGCESSRDTGPPPPLKTRSVLRGD
 DVLLPCDQPSNLARALWLL NGSMGLSDGQGGYRVGVDGLLVTDQAQPEHSGNYGC
 YAEENGLRTLASYSLTVRPATPAPAPKAP 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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