

Product datasheet for **AR31179PU-N**

SEMA3A Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	SEMA3A human recombinant protein, 25 µg
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	<p>NYQNGKNNVP RLKLSYKEML ESNNVITFNG LANSSSYHTF LLDEERSRLY VGAKDHIFSF DLVNIKDFQK IWVPSYTRR DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP EDNIFKLENS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA IFRTLGHHP IRTEQHDSRW LNDPKFISAH LISEDNPED DKVYFFREN AIDGEHSGKA THARIGQICK NDFGGHRSV NKWTTFLKAR LICSVPGPNG IDTHFDELQD VFLMNFKDPK NPVYGVFTT SSNIFKGSV CMYSMSDVR VFLGPYHRD GPNYQWVPYQ GRVPYPRPGT CPSKTFGGFD STKDLRDDVI TFARSHPAMY NPVFPMMNRP IVIKTDVNYQ FTQIVDRVD AEDGQYDVMF IGTDVGTVLK VVSIPKETWY DLEEVLL EEM TVFREPTAIS AMELSTKQQQ LYIGSTAGVA QLPLHRCDIY GKACAECCLA RDPYCAWDGS ACSRYFPTAK RRTRRQDIRN GDPLTHCSDL HHDNHHGHSP EERIIYGVEN SSTFLECSPK SQRALVYWQF QRRNEERKEE IRVDDHIIRT DQGLLLRSLQ QKDSGNYLCH AVEHGFIQTL LKVTLEVIDT EHLEELLHKD DDGDGSKTKE MSNSMTPSQK VWYRDFMQLI NHPNLNTMDE FCEQVWKRDR KQRRQRP GHT PGNSNKWKHL QENKKGRNRR THEFERAPRS V</p>
Purity:	>95% by SDS-PAGE and HPLC Endotoxin: < 0.1 ng/ug of protein (< 1 EU/ug)
Buffer:	Presentation State: Purified State: Lyophilized purified protein 10 mM Tris, pH 8.8 + 100 mM NaCl
Bioactivity:	Biological: Determined by its ability to bind recombinant Rat Neuropilin-1 Fc Chimera in a functional ELISA assay.
Endotoxin:	< 0.1 ng/ug of protein (< 1 EU/ug)
Reconstitution Method:	Centrifuge the vial prior to opening. Restore in 1x PBS to a concentration of 0.1-0.25 mg/ml. NOTE: Allow the reconstituted vial to sit at room temperature for 1 hour before use. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA).



[View online »](#)

Preparation:	Lyophilized purified protein
Protein Description:	Recombinant Human Semaphorin 3A Fc is a glycosylated, disulfidelinked homodimer of 1,976 amino acid residues, which includes the SEMA domain, immunoglobulin c2-like domain, and the C-terminal basic Arg/Lys-rich domain of the mature sequence, as well as an 8- residue N-terminal His-tag and a 230-residue C-terminal Fc region linked by two glycines.
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_006071
Locus ID:	10371
UniProt ID:	Q14563
Cytogenetics:	7q21.11
Synonyms:	coll-1; COLL1; HH16; Hsema-I; Hsema-III; SEMA1; SEMAD; SEMAIII; SEMAL; SemD
Summary:	This gene is a member of the semaphorin family and encodes a protein with an Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a Sema domain. This secreted protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of this protein is associated with schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with the progression of Alzheimer's disease. [provided by RefSeq, Jul 2008]
Protein Families:	Secreted Protein
Protein Pathways:	Axon guidance