



# Recombinant Human Semaphorin-3A (SEMA3A)

<b>Product Code</b>	CSB-EP613506HU-B
<b>Abbreviation</b>	SEMA3A
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q14563
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>           NYQNGKNNVP RLKLSYKEML ESNNVITFNG LANSSSYHTF LLDEERSRLY            VGAKDHIFSF DLVNIKDFQK IVWPVSYTRR DECKWAGKDI LKECANFIKV            LKAYNQTHLY ACGTGAFHPI CTYIEIGHHP EDNIFKLENS HFENGRGKSP            YDPKLLTASL LIDGELYSGT AADFMGRDFA IFRTLGHHP IRTEQHDSRW            LNDPKFISAH LISESDNPED DKVYFFFREN AIDGEHSGKA THARIGQICK            NDFGGHRSLV NKWTTFLKAR LICSVPGPNG IDTHFDELQD VFLMNFKDPK            NPVVYGVFTT SSNIFKGS AV CMYSMSDVRR VFLGPYHRD GPNYQWVPYQ            GRVPYPRPGT CPSKTFGGFD STKDLPPDVI TFARSHPAMY NPVFPMNNRP            IVIKTDVNYQ FTQIVVDRVD AEDGQYDVMF IGTDVGTVLK VVSIPKETWY            DLEEVILLEEM TVFREPTAIS AMELSTKQQQ LYIGSTAGVA QLPLHRCDIY            GKACAECCLA RDPYCAWDGS ACSRYFPTAK RRTRRQDIRN GDPLTHCSDL            HHDNHHGHSP EERIIYGVEN SSTFLECSPK SQRALVYWQF QRRNEERKEE            IRVDDHIIRT DQGLLLRSLQ QKDSGNYLCH AVEHGFIQTL LKVTLVIDT            EHLEELLHKD DDGDGSKTKE MSNSMTPSQK VWYRDFMQLI NHPNLNTMDE            FCEQVWKRDR KQRRQRP GHT PGNSNKWKHL QENKKGRNRR            THEFERAPRS V         </p>
<b>Source</b>	E.coli
<b>Target Names</b>	SEMA3A
<b>Protein Names</b>	Recommended name: Semaphorin-3A Alternative name(s): Semaphorin III Short name= Sema III
<b>Expression Region</b>	21-771
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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