



Recombinant Rat Semaphorin-3A (Sema3a)

Product Code	CSB-EP717391RA-B
Abbreviation	Sema3a
Storage	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.
Uniprot No.	Q63548
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	<p> NYANGKNNVP RLKLSYKEML ESNNVITFNG LANSSSYHTF LLDEERSRLY VGAKDHIFS NLVNIKDFQK IVWPVSYTRR DECKWAGKDI LKECANFIKV LKAYNQTHLY ACGTGAFHPI CTYIEVGHHP EDNIFKLQDS HFENGRGKSP YDPKLLTASL LIDGELYSGT AADFMGRDFA IFRTLGHHP IRTEQHDSRW LNDPRFISAH LIPESDNPED DKVYFFREN AIDGEHSGKA THARIGQICK NDFGGHRS LV NKWTTFLKAR LICSVPGPNG IDTHFDELQD VFLMNSKDPK NPIVYGVFTT SSNIFKGS AV CMYSMSD VRR VFLGPYAH RD GP NYQWV PYQ GRVPYPRPGT CPSKTFGGFD STKDL PDDVI TFARSH PAMY NPVFPINNRP IMIKTDVNYQ FTQIVVDRVD AEDGQYDVMF IGTDVGTVLK VVSVPKETWH DLEEV LLEEM TVFREPTTIS AMELSTKQQQ LYIGSTAGVA QLPLHRCDIY GKACAECC LA RDPYCAWDGS SCSRYFPTAK RRTRRQDIRN GDPLTHCSDL QHHDNHHGHS LEERIIYGVE NSSTFLECS P KSQRALVYWQ FQRRNEDRKE EIRVGDHIIR TEQGLLLRSL QKKDSGNLYC HAVEHGFMQT LLKV TLEVID TEHLEELLHK DDDGDGSKTK EMSSSMTPSQ KVWYRDFMQL INHPNLNTMD EFCEQVWKRD RKQRRQRPGH SQGSSNKWKH MQESKKGRNR RTHEFERAPR SV </p>
Source	E.coli
Target Names	Sema3a
Protein Names	Recommended name: Semaphorin-3A Alternative name(s): Semaphorin III Short name= Sema III
Expression Region	21-772
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.

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.

Shelf Life

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.