

## 32-7995: Recombinant Human Semaphorin-3A/SEMA3A (C-6His)(Discontinued)

**Gene :** SEMA3A

**Gene ID :** 10371

**Uniprot ID :** Q14563

### Description

Source: Human Cells.

MW :87.3kD.

Recombinant Human Semaphorin 3A is produced by our Mammalian expression system and the target gene encoding Asn21-Val771 is expressed with a 6His tag at the C-terminus. Semaphorin-3A is a secreted protein which belongs to the semaphorin family. Semaphorins are a family of secreted and cell-bound signaling molecules defined by the presence of a common 500 aa Sema domain. This 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.

### Product Info

**Amount :** 6His) / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.

**Storage condition :** Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** NYQNGKNNVPRLKLSYKEMLESNNVITFNGLANSSSYHTFLLEERSRLYVGAKDHIFSDLVNIKDFQKIVWVPY  
SYTRRDECKWAGKDILKECANFIKVLKAYNQTHLYACGTGAFHPICTYIEIGHHPEDNIFKLENSHFENGRGKSPY  
DPKLLTASLLIDGELYSGTAADFMRDFAIFRTLGHHPHPIRTEQHDSRWLNDPKFISAHLISESDNPEDDKVYFF  
FRENAIDGEHSGKATHARIGQICKNDFGGHRSLVNKWTTFLKARLICSVPGPNGIDTHFDELQDVFLMNFKDPK  
NPVVYGVFTSSNIFKGSVCMYMSDVRRVFLGPYAHRDGPYQWVVPYQGRVYPRPGTGPCSKTFGGFDST  
KDLRDDVITFARSHPAMYNPVFPMNNRPVIVIKTDVNYQFTQIVVDRVDAEDGQYDVMFIGTDVGTVLKVVSIK  
ETWYDLEEVLEEMTVFREPTAISAMELSTKQQQLYIGSTAGVAQLPLHRCDIYGKACAECCLARDPYCAWDGS  
ACSRFYPTAKRATRAQDIRNGDPLTHCSDLHHDNHHGHSPEERIIYGVENSSTFLECSPKSQRALVYWFQRR  
NEERKEEIRVDDHIIRDQGLLRLSQKDSGNLYLCHAVEHGFIQTLLKVTLEVIDTEHLEELLHKDDDDGDSKT  
KEMSNSMTPSQKVWYRDFMQLINHPNLNTMDEFCEQVWKRDRKQRRQRPGHTPGNSNKWKHLQENKKGKGR  
NRRTHEFERAPRSVHHHHHH

### Application Note

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 ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.