

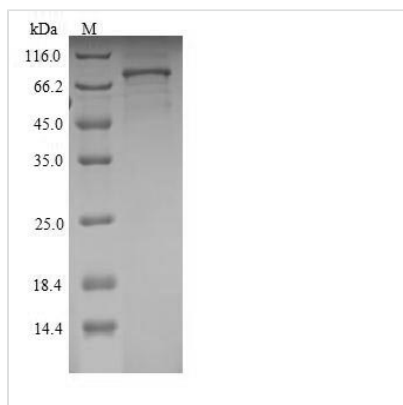


# Recombinant Rat Semaphorin-3A (Sema3a)

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Code</b>      | CSB-EP717391RA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Relevance</b>         | May be involved in guiding growing axons towards their targets by forming a molecular boundary that instructs axons to engage in the formation of specific nerve tracts. Binds to neuropilin. Involved in the development of the olfactory system and in neuronal control of puberty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Abbreviation</b>      | Recombinant Rat Sema3a protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <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>       | Q63548                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product Type</b>      | Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>            | ≥ 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Sequence</b>          | NYANGKNNVPRLKLSYKEMLESNNVITFNGLANSSSYHTFLLDEERSRLYVGA<br>KDHIFSFNLVNIKDFQKIVWPVSYTRRDECKWAGKDILKECANFIKVLKAYNQT<br>HLYACGTGAFHPICTYIEVGHPEDNIFKLQDSHFENGRGKSPYDPKLLTASLLI<br>DGELYSGTAAADFMRDFAIFRTLGHHPHPIRTEQHDSRWLNDPRFISAHLIPESD<br>NPEDDKVYFFFRENAIDGEHSGKATHARIGQICKNDFGGHRSVLNKWTTFLKA<br>RLICSVPGPNGIDTHFDELQDVFLMNSKDPKNPIVYGVFTTSSNIFKGSACVCMY<br>SMSDVRVFLGPYAHRDGPYQWVPYQGRVPYPRPGTCSKTFGGFDSTKD<br>LPDDVITFARSHPAMYNPVFPINNRPIMIKTDVNYQFTQIVVDRVDAEDGQYDV<br>MFIGTDVGTVLKVVSVPKETWHDLEEVLLLEEMTVFREPTTISAMELSTKQQQL<br>YIGSTAGVAQLPLHRCDIYGKACAECCLARDPYCAWDGSSCSRYFPTAKRRT<br>RRQDIRNGDPLTHCSDLQHHDNHHGHSLEERIIYGVENSSTFLECSPKSQRAL<br>VYWQFQRRNEDRKEEIRVGDHIIIRTEQGLLLRSLQKKDSGNYLCHAVEHGFM<br>QTLLKVTLEVIDTEHLEELLHKDDGDGSKTKEMSSSMTPSQKVWYRDFMQLI<br>NHPNLNTMDEFCEQVWKRDRKQRRQRPQHSQGSSNKWKHMQESKKGRNR<br>RTHEFERAPRSV |
| <b>Research Area</b>     | Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Target Names</b>      | Sema3a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Expression Region</b> | 21-772aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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>          | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Mol. Weight</b>       | 90.6kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Length</b>    | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## 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.