

## Recombinant Mouse Sema3a protein, His-tagged

**Cat. No.** Sema3a-7022M    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Mouse Sema3a(Lys26-Phe546) fused with His tag at N-terminal was expressed in HEK293.                                                                                                                                                                                                                  |
| <b>Species</b>              | Mouse                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>        | Lys26-Phe546                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>          | Sema3a played an important role in many functions.                                                                                                                                                                                                                                                                |
| <b>Predicted N Terminal</b> | His                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>                 | Lyophilized from sterile 20 mM Tris, 150 mM NaCl, 100 mM Argine, 100 mM glutamic acid, pH 8.5. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements. |
| <b>Molecular Mass</b>       | The recombinant mouse SEMA3A consists 540 amino acids and predicts a molecular mass of 61.6 kDa.                                                                                                                                                                                                                  |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                                                                          |
| <b>Purity</b>               | > 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70 centigrade                                                                                                                                                                         |
| <b>Storage</b>        | Store it under sterile conditions at -20 centigrade to -80 centigrade upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.                                                    |
| <b>Reconstitution</b> | Detailed reconstitution instructions are sent along with the products.                                                                                                                                                                                    |
| <b>Shipping</b>       | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Sema3a sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A [ Mus musculus ]                                                                                                   |
| <b>Official Symbol</b> | Sema3a                                                                                                                                                                                                           |
| <b>Synonyms</b>        | SEMA3A; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A; semaphorin-3A; sema D; sema III; collapsin-1; semaphorin-D; semaphorin III; SemD; SEMA1; Semad; coll-1; Hsema-I; |
| <b>Gene ID</b>         | 20346                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_001243072                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_001230001                                                                                                                                                                                                     |
| <b>MIM</b>             |                                                                                                                                                                                                                  |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | O08665                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 5; 5 A1                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CRMPs in Sema3A signaling, organism-specific biosystem; Developmental Biology, organism-specific biosystem; SEMA3A-Plexin repulsion signaling by inhibiting Integrin adhesion, organism-specific biosystem; Sema3A PAK dependent Axon repulsion, organism-specific biosystem; |
| <b>Function</b>            | chemorepellent activity; receptor activity;                                                                                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA