

## Recombinant Human SEMA3A, His-Flag-tagged

**Cat. No.** SEMA3A-854H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Semaphorin 3A(Q14563)(Lys26-Phe546) is produced by Mammalian expression system and is expressed with a 6His-Flag tag at the N-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Lys26-Phe546                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized from a 0.2 µm filtered solution of PBS, 5% Trehalose, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 70-75kDa, reducing conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>        | Less than 0.1 ng/g (1 EU/g) as determined by LAL test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | Greater than 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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

**Reconstitution** 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 distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

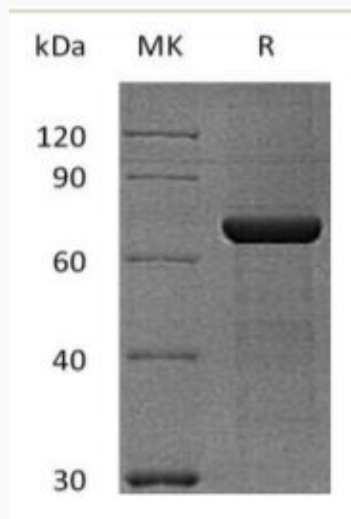
## GENE INFORMATION

|                        |                                                                             |
|------------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b>       | SEMA3A semaphorin 3A [ Homo sapiens (human) ]                               |
| <b>Official Symbol</b> | SEMA3A                                                                      |
| <b>Synonyms</b>        | HH16; SemD; COLL1; SEMA1; SEMAD; SEMAL; coll-1; Hsema-I; SEMAIII; Hsema-III |
| <b>Gene ID</b>         | 10371                                                                       |
| <b>mRNA Refseq</b>     | NM_006080.3                                                                 |
| <b>Protein Refseq</b>  | NP_006071.1                                                                 |
| <b>MIM</b>             | 603961                                                                      |
| <b>UniProt ID</b>      | Q14563                                                                      |

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**SDS-PAGE**

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