

## Recombinant Human SEMA3C protein, His-tagged

**Cat. No.** SEMA3C-1906H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SEMA3C aa. (Arg28~Asp150 (Accession # Q99985)) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Arg28~Asp150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene encodes a secreted glycoprotein that belongs to the semaphorin class 3 family of neuronal guidance cues. The encoded protein contains an N-terminal sema domain, integrin and immunoglobulin-like domains, and a C-terminal basic domain. Homodimerization and proteolytic cleavage of the C-terminal propeptide are necessary for the function of the encoded protein. It binds a neuropilin co-receptor before forming a heterotrimeric complex with an associated plexin. An increase in the expression of this gene correlates with an increase in cancer cell invasion and adhesion. Naturally occurring mutations in this gene are associated with Hirschsprung disease. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 15.7kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                          |                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>            | >95%                                                                                                                                                                                                                                                                                                                                |
| <b>Applications</b>      | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                            |
| <b>Stability</b>         | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>           | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b>    | Supplied as lyophilized form in 10mM PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and preservative.                                                                                                                                                                                                                 |
| <b>Reconstitution</b>    | Reconstitute in sterile ddH <sub>2</sub> O.                                                                                                                                                                                                                                                                                         |
| <b>Isoelectric Point</b> | 6.4                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | SEMA3C semaphorin 3C [ Homo sapiens (human) ]                                                                                                                   |
| <b>Official Symbol</b> | SEMA3C                                                                                                                                                          |
| <b>Synonyms</b>        | SEMA3C; semaphorin 3C; SemE; SEMAE; semaphorin-3C; sema E; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C; semaphorin E |
| <b>Gene ID</b>         | 10512                                                                                                                                                           |

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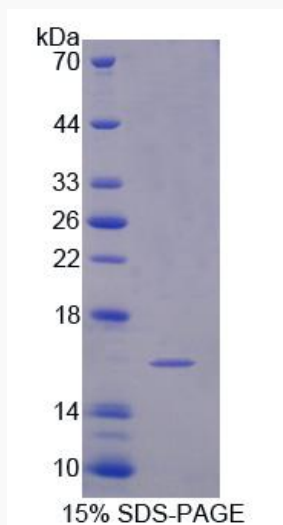
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mRNA Refseq NM\_006379.4

Protein Refseq NP\_006370.1

UniProt ID Q99985

SDS-PAGE



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