

## Recombinant Human SEMA4D protein, His-tagged

**Cat. No.** SEMA4D-6946H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SEMA4D aa. (Phe502~Phe636) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Phe502~Phe636                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 18kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                                                |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >98%                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b>   | The isoelectric point is 8.8.                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.                                                                                                                                                                                                                                                               |
| <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. |

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|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <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>Concentration</b>  | 200ug/mL                                                                                                   |
| <b>Storage buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.    |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.          |

## GENE INFORMATION

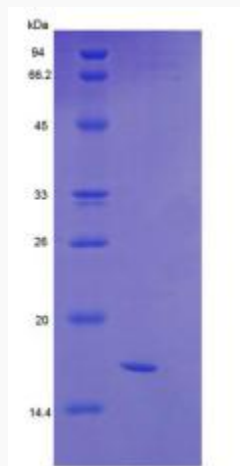
|                        |                                                                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | SEMA4D semaphorin 4D [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | SEMA4D                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | SEMA4D; semaphorin 4D; CD100; SEMAJ; coll-4; C9orf164; M-sema-G; semaphorin-4D; A8; BB18; GR3; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D |
| <b>Gene ID</b>         | 10507                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_001142287.1                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_001135759.1                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>      | Q92854                                                                                                                                                                                                                                                                                                               |

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**SDS-PAGE**



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