

## Active Recombinant Human SEMA4D protein, His-tagged

**Cat. No.** SEMA4D-7023H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human SEMA4D protein(Q92854-1)(Met 1-Arg 734) was expressed in HEK293, with a polyhistidine tag at the C-terminus.                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-734 aa                                                                                                                                                                                                                          |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                             |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D-His at 10 µg/ml (100 µl/well) can bind mouse PTPRC-Fc with a linear range of 0.625-5 µg/ml.                                                       |
| <b>Molecular Mass</b>   | The recombinant human SEMA4D consists of 725 amino acids and predicts a molecular mass of 80.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhSEMA4D is approximately 110 kDa due to glycosylation. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                   |
| <b>Purity</b>           | > 92 % as determined by SDS-PAGE                                                                                                                                                                                                  |
| <b>Storage</b>          | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-                                                          |

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thaw cycles.

#### Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

### GENE INFORMATION

#### Gene Name

SEMA4D sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [ Homo sapiens ]

#### Official Symbol

SEMA4D

#### Synonyms

SEMA4D; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D; C9orf164, chromosome 9 open reading frame 164, SEMAJ; semaphorin-4D; CD100; coll 4; FLJ39737; M sema G; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D; SEMAJ; coll-4; C9orf164; M-sema-G; FLJ33485; FLJ34282; FLJ46484; MGC169138; MGC169141;

#### Gene ID

10507

#### mRNA Refseq

NM\_001142287

#### Protein Refseq

NP\_001135759

#### MIM

601866

#### UniProt ID

Q92854

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