

# Semaphorin 4D/SEMA4D/CD100 Recombinant Protein | SEMA4D/CD100 recombinant protein

Biotinylated Human Semaphorin 4D/SEMA4D/CD100 Protein Recombinant

|           |                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| CATALOG # | HOST                                                                                                                                    |
| AAA76152  | HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.) |

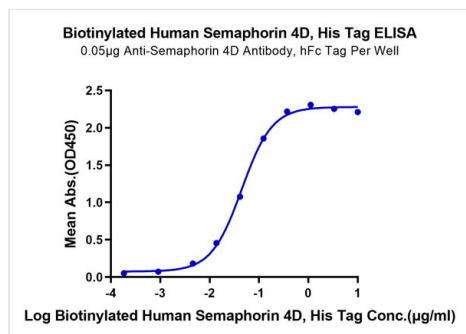
## PRODUCT SYNONYMS

Semaphorin 4D/SEMA4D/CD100; Biotinylated Human Semaphorin 4D/SEMA4D/CD100 Protein Recombinant; SEMA4D/CD100 recombinant protein

## PRODUCT SPECIFICATIONS

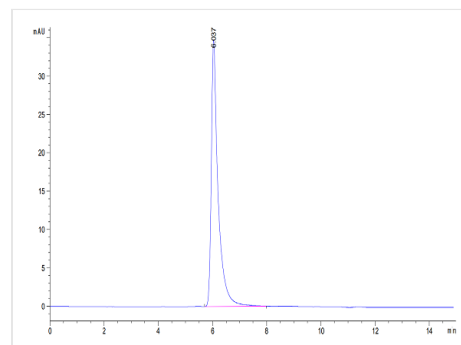
|                         |                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 cells (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)                                                                                |
| Purity/Purification     | >95%, as determined by SDS-PAGE and HPLC                                                                                                                                                                               |
| Form/Format             | Recombinant Human Semaphorin 4D/SEMA4D/CD100 was lyophilized from 0.2 um filtered PBS solution pH7.4                                                                                                                   |
| Source                  | DNA sequence encoding Human Semaphorin 4D/SEMA4D/CD100 including a C-His-Avi tag was expressed in HEK293 Cells. The recombinant protein was then biotinylated site specific using the AVitag biotinylation technology. |
| Endotoxin               | Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).                                                                                               |
| Reconstitution          | Centrifuge vial to ensure maximal product extraction, recommended: 20sec, 5K RPM                                                                                                                                       |
| Preparation and Storage | The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C.                                                                                                                           |

## IMAGES



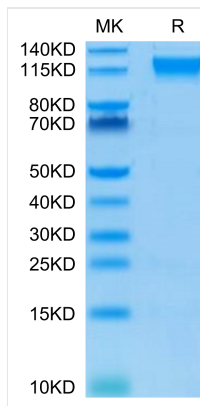
### ELISA

Biotinylated Human Semaphorin 4D/SEMA4D/CD100 Protein ELISA Data: Immobilized Anti-Semaphorin 4D Antibody, hFc Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human Semaphorin 4D, His Tag with the EC<sub>50</sub> of 44.8 ng/ml determined by ELISA.



### Application Data

Biotinylated Human Semaphorin 4D/SEMA4D/CD100 Protein SEC-HPLC: The purity of Biotinylated Human Semaphorin 4D is greater than 95% as determined by SEC-HPLC.



#### Tris-Bis-PAGE

Biotinylated Human Semaphorin 4D/SEMA4D/CD100 Protein Tris-Bis PAGE Biotinylated Human Semaphorin 4D on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ADDITIONAL INFORMATION

|                                                                |                       |
|----------------------------------------------------------------|-----------------------|
| Product Categories/Family for SEMA4D/CD100 recombinant protein | Biotinylated proteins |
|----------------------------------------------------------------|-----------------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 214010218                                                                                                                         |
| NCBI GeneID                      | 10507                                                                                                                             |
| NCBI Accession #                 | NP_006369.3                                                                                                                       |
| NCBI GenBank Nucleotide #        | NM_006378.3                                                                                                                       |
| UniProt Accession #              | Q92854; O43157 PLXB1_HUMAN; P01730 CD4_HUMAN                                                                                      |
| Molecular Weight                 | 96,150 Da                                                                                                                         |
| NCBI Official Full Name          | semaphorin-4D isoform 1                                                                                                           |
| NCBI Official Synonym Full Names | sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D                  |
| NCBI Official Symbol             | SEMA4D                                                                                                                            |
| NCBI Official Synonym Symbols    | CD100; SEMAJ; coll-4; C9orf164; M-sema-G                                                                                          |
| NCBI Protein Information         | semaphorin-4D; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D |
| UniProt Protein Name             | Semaphorin-4D                                                                                                                     |
| UniProt Gene Name                | <b>SEMA4D</b>                                                                                                                     |
| UniProt Synonym Gene Names       | C9orf164; CD100; SEMAJ                                                                                                            |
| UniProt Entry Name               | SEM4D_HUMAN                                                                                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.