

Recombinant Human Semaphorin-4D/SEMA4D/CD100 Protein

Catalog No.: RP00981 **Recombinant** **1 Publications**

Sequence Information

Species	Gene ID	Swiss Prot
Human	10507	Q92854

Tags

C-His

Synonyms

SEMA4D;C9orf164;CD100;M-sema-
G;SEMAJ;coll-4;Semaphorin 4D / CD100

Product Information

Source	Purification
HEK293 cells	> 97% by SDS- PAGE.

Calculated MW	Observed MW
80.00 kDa	120-130 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

This protein is a member of the semaphorin family of proteins and an important mediator of the movement and differentiation of multiple cell types, including those of the immune, vascular, and nervous systems. VEGF and SEMA4D had a positive correlation with the malignant degree of ovarian cancer, and SEMA4D can serve as an independent prognostic factor. SEMA4D was the first semaphorin described to have immune functions and serves important roles in T cell priming, antibody production, and cell-to-cell adhesion. Proteolytic cleavage of SEMA4D from the cell surface gives rise to a soluble fragment of SEMA4D (sSEMA4D). Similar to the transmembranal form, sSEMA4D is thought to have immunoregulatory properties.

Basic Information

Description

Recombinant Human Semaphorin-4D/SEMA4D/CD100 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met22-Arg734) of human Semaphorin 4D (Accession #NP_006369.3) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human SEMA4D Protein at 1μg/mL (100 μL/well) can bind CD100 Rabbit mAb with a linear range of 0.012-0.88 ng/mL.

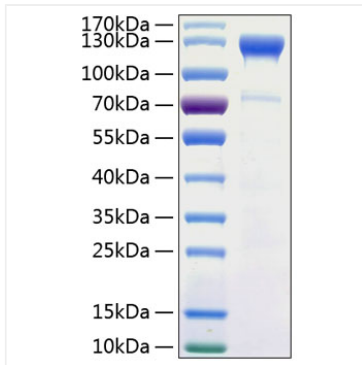
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

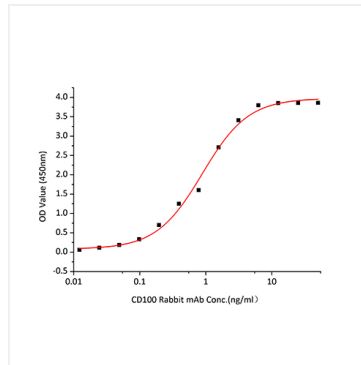
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Semaphorin-4D/SEMA4D/CD100 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 120-130 kDa.



Immobilized Human SEMA4D Protein at 1 μ g/mL (100 μ L/well) can bind CD100 Rabbit mAb with a linear range of 0.012-0.88 ng/mL.