Recombinant Human Semaphorin-4D/SEMA4D /CD100 Protein

Catalog No.: RP00981

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Sequence Information

Species
Human

Gene ID
10507

Swiss Prot
Q92854

Tags
C-His

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

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
80.00 kDa

Observed MW
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

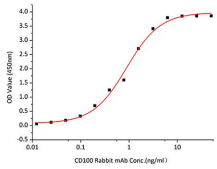
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

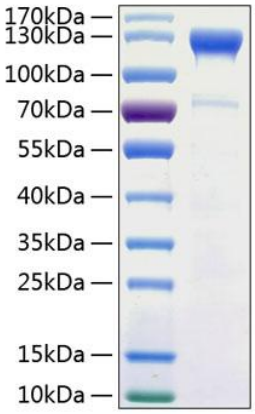
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Validation Data



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.



Recombinant Human Semaphorin-4D/SEMA4D/CD100 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.