

## Recombinant Human Semaphorin 4D/SEMA4D Protein (Fc Tag)

**Catalog Number:** PKSH033023

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

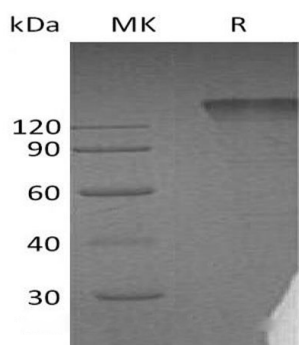
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human SEMA4D;CD100 protein Met22-Arg734, with an C-terminal Fc
<b>Calculated MW</b>	106.4 kDa
<b>Observed MW</b>	130-170 kDa
<b>Accession</b>	AAH54500.1
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in the printed manual.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Semaphorin-4D is also known as A8;BB18; GR3; CD100. Semaphorin-4D belongs to the semaphorin family containing 1 Ig-like C2-type domain; 1 PSI domain and 1 Sema domain. It is the cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling. It promotes the migration of cerebellar granule cells and of endothelial cells; regulates dendrite and axon branching and morphogenesis. Semaphorin-4D Plays a role in the immune system; Promotes signaling via SRC and PTK2B/PYK2; which then mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade.

### For Research Use Only