

## SEMA4D Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	FLJ39737;CD100;SEMAJ;C9orf164;FLJ34282;M-sema-G;FLJ46484;Semaphorin-4D;coll-4;FLJ33485;MGC169138;SEMA4D;MGC169141
Protein Construction:	Met22-Arg734
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q92854-1
Molecular Weight:	82.1 kDa (predicted). Due to glycosylation, the protein migrates to 115-140 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Anti-Semaphorin 4D Antibody, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human Semaphorin 4D, His Tag with the EC50 of 44.8 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Semaphorin 4D (Sema4D) is a multifunctional protein widely expressed in an organism that plays an important role in the control of many physiological and pathological processes, including immunoregulation, neurogenesis, angiogenesis, and tumor progression.

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