

# Cynomolgus Semaphorin 4D/SEMA4D/CD100 Protein

Cat. No. SEM-CM14D

## Description

<b>Source</b>	Recombinant Cynomolgus Semaphorin 4D/SEMA4D/CD100 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe24-Arg734.
<b>Accession</b>	A0A2K5TZC9
<b>Molecular Weight</b>	The protein has a predicted MW of 80.1 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

## Assay Data

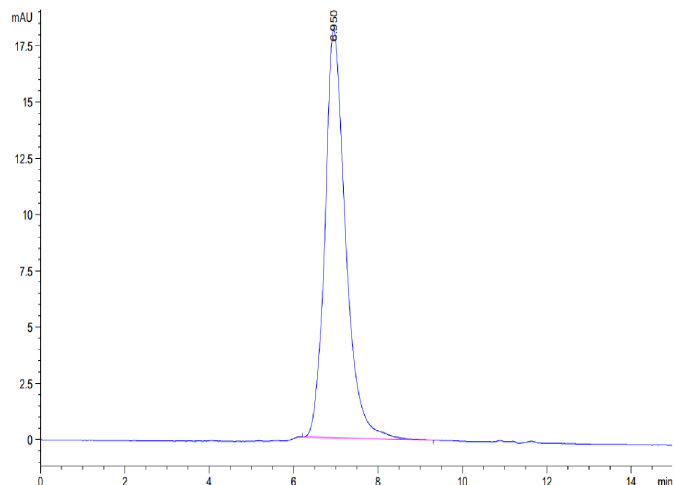
### Tris-Bis PAGE



Cynomolgus Semaphorin 4D on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

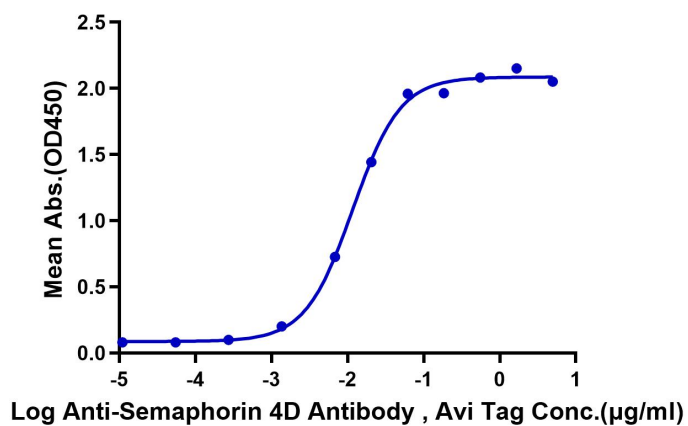


The purity of Cynomolgus Semaphorin 4D is greater than 95% as determined by SEC-HPLC.

ELISA Data

Cynomolgus Semaphorin 4D, His Tag ELISA

0.2µg Cynomolgus Semaphorin 4D, His Tag Per Well



Immobilized Cynomolgus Semaphorin 4D, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-Semaphorin 4D Antibody, hFc Tag with the EC50 of 11.8ng/ml determined by ELISA.