

Biotinylated Human Semaphorin 4D/SEMA4D/CD100 Protein

Cat. No. SEM-HM44DB

Description

Source	Recombinant Biotinylated Human Semaphorin 4D/SEMA4D/CD100 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Met22-Arg734.
Accession	Q92854-1
Molecular Weight	The protein has a predicted MW of 82.1 kDa. Due to glycosylation, the protein migrates to 115-140 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

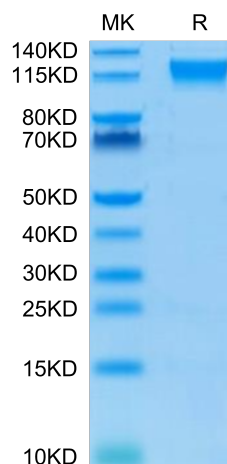
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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

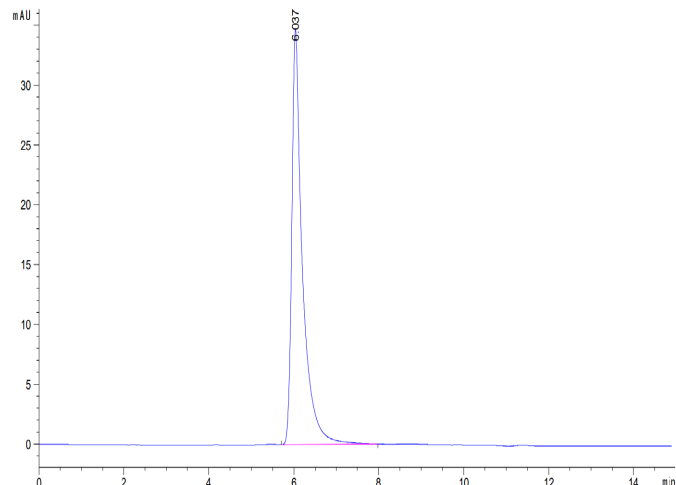
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

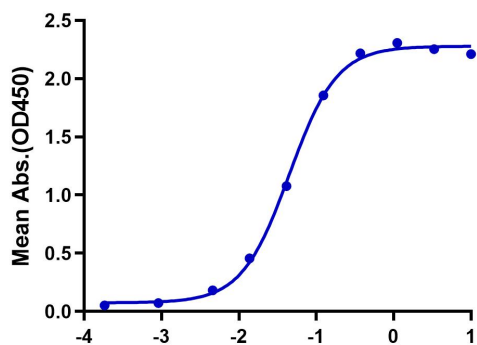


The purity of Biotinylated Human Semaphorin 4D is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human Semaphorin 4D, His Tag ELISA

0.05µg Anti-Semaphorin 4D Antibody, hFc Tag Per Well



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 44.8ng/ml determined by ELISA.