Human Semaphorin 4D/SEMA4D/CD100 Protein

Cat. No. SEM-HM14D

Description

Source	Recombinant Human Semaphorin 4D/SEMA4D/CD100 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Met22-Arg734.
Accession	Q92854-1
Molecular Weight	The protein has a predicted MW of 80.77 kDa. Due to glycosylation, the protein migrates to 110-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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.

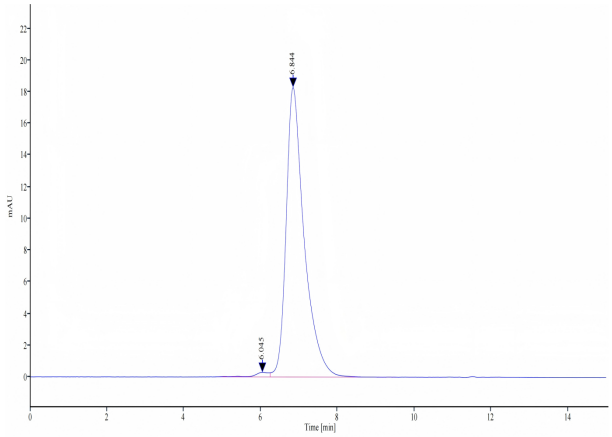
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



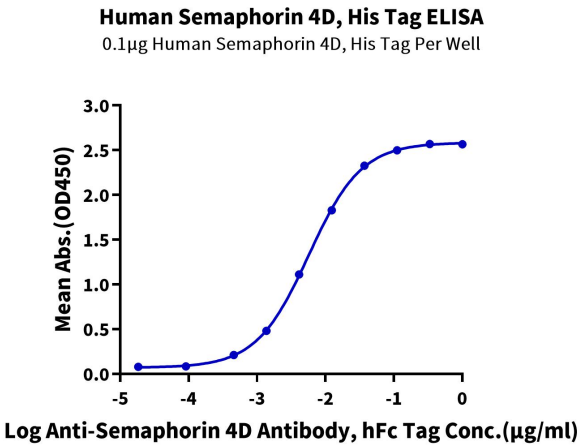
The purity of Human Semaphorin 4D is greater than 95% as determined by SEC-HPLC.

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Assay Data

ELISA Data



Immobilized Human Semaphorin 4D, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-Semaphorin 4D Antibody, hFc Tag with the EC50 of 5.7ng/ml determined by ELISA.

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