

Mouse Semaphorin 4D/SEMA4D/CD100 Protein

Cat. No. SEM-MM14D

Description

Source	Recombinant Mouse Semaphorin 4D/SEMA4D/CD100 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe24-Arg733.
Accession	O09126
Molecular Weight	The protein has a predicted MW of 79.87 kDa. Due to glycosylation, the protein migrates to 100-130 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

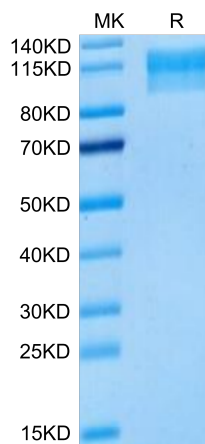
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized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

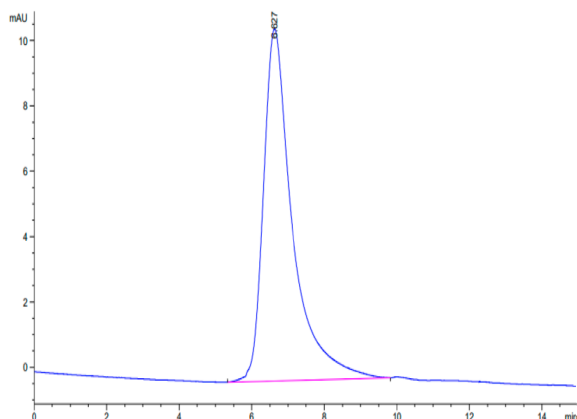
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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