

Human Semaphorin 4A/SEMA4A Sema Domain Protein



Cat. No. SEM-HM1D1

Description	
Source	Recombinant Human Semaphorin 4A/SEMA4A Sema Domain Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln36-Arg494.
Accession	Q9H3S1-1
Molecular Weight	The protein has a predicted MW of 52.72 kDa. Due to glycosylation, the protein migrates to 55-65 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	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Neuroimmune semaphorin 4A (Sema4A), a member of semaphorin family of transmembrane and secreted proteins, is an important regulator of neuronal and immune functions. In the nervous system, Sema4A primarily regulates the functional activity of neurons serving as an axon guidance molecule. In the immune system, Sema4A regulates immune cell activation and function, instructing a fine tuning of the immune response.	

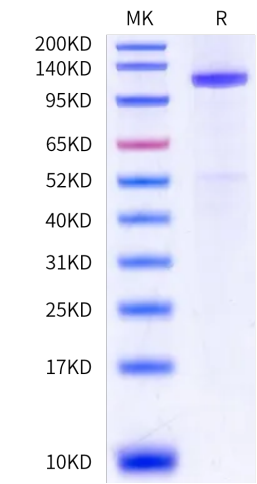
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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