

Mouse SEMA3A/Semaphorin-3A Protein



Cat. No. SEM-MM13A

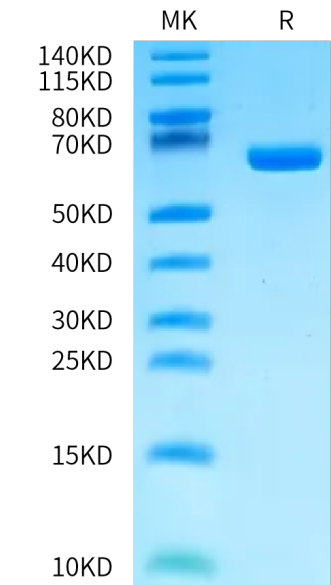
Description	
Source	Recombinant Mouse SEMA3A/Semaphorin-3A Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Tyr21-Val772.
Accession	O08665
Molecular Weight	The protein has a predicted MW of 86.6 kDa. Due to furin cleavage site, the protein migrates to 65-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 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, 200 mM L-Argine (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	
The CRMP proteins were originally identified as mediators of Sema3A signaling and neuronal differentiation. Much has been learned about the mechanism by which CRMPs regulate cellular responses to Sema3A. The secreted protein Sema3A (collapsin-1) was the first identified vertebrate semaphorin. Sema3A acts primarily as a repulsive axon guidance cue, and can cause a dramatic collapse of the growth cone lamellipodium. Neuropilin-1 (NP1) and members of the class A plexins (PlexA) form a Sema3A receptor complex, with NP1 serving as a high-affinity ligand binding partner, and PlexA transducing the signal into the cell via its large intracellular domain.	

Assay Data

Bis-Tris PAGE



Mouse SEMA3A on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

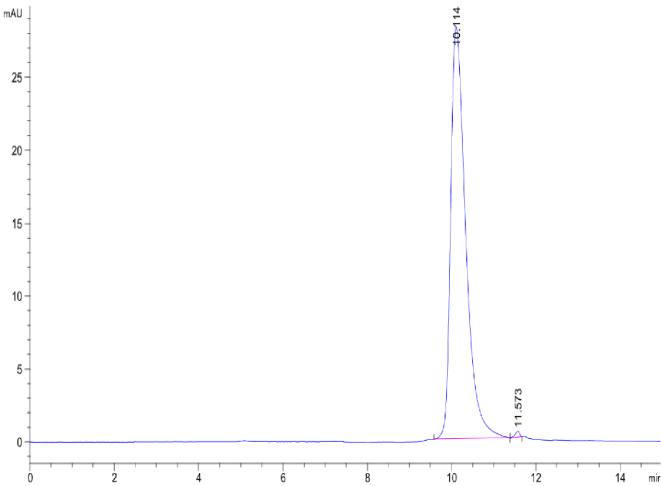
SEC-HPLC

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Assay Data



The purity of Mouse SEMA3A is greater than 95% as determined by SEC-HPLC.