

Datasheet for ABIN7275567

SEMA3A Protein (AA 21-772) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SEMA3A
Protein Characteristics:	AA 21-772
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA3A protein is labelled with His tag.

Product Details

Purpose:	Mouse SEMA3A Protein
Sequence:	Tyr21-Val772
Characteristics:	Recombinant Mouse SEMA3A Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Tyr21-Val772.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	SEMA3A
Alternative Name:	SEMA3A (SEMA3A Products)

Target Details

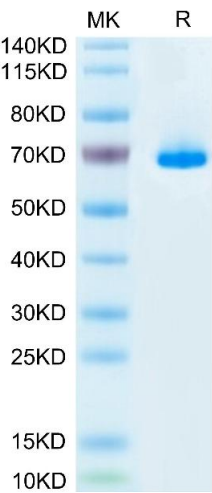
Background:	The CRMP proteins were originally identified as mediators of Sema3A signaling and neuronal differentiation. Much has been learned about the mechanism by which CRMPs regulate cellular responses to Sema3A. The secreted protein Sema3A (collapsin-1) was the first identified vertebrate semaphorin. 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.
Molecular Weight:	86.6 kDa same as Tris-Bis PAGE result.
UniProt:	O08665
Pathways:	Regulation of Cell Size

Application Details

Restrictions:	For Research Use only
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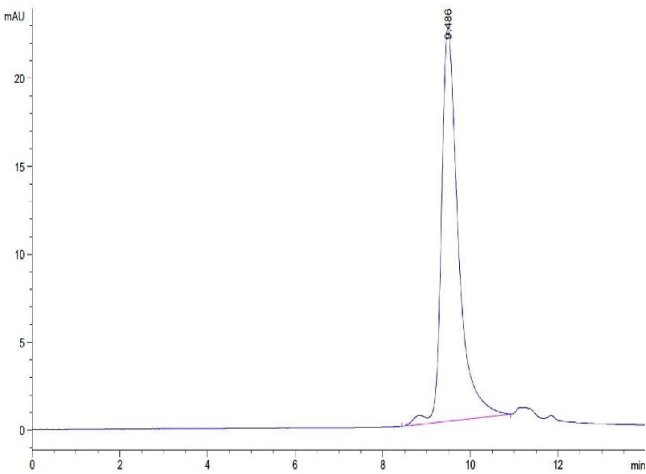
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in 20 mM Tris, 150 mM NaCl, 100 mM L-arginine, 100 mM glutamic acid (pH 8.5). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt, -80°C for 3-6 months 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.
Expiry Date:	12 months



SDS-PAGE

Image 1. Mouse SEMA3A on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse SEMA3A is greater than 95 % as determined by SEC-HPLC.