

Datasheet for ABIN7275562
SEMA3A Protein (His tag)



[Go to Product page](#)

3 Images

Overview

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

Product Details

Sequence:	Asn21-Val771
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.
Biological Activity Comment:	Immobilized Anti-SEMA3A Antibody, hFc Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human SEMA3A, His Tag with the EC50 of 0.9µg/ml determined by ELISA. See testing image for detail.

Target Details

Target:	SEMA3A
Alternative Name:	SEMA3A (SEMA3A Products)
Background:	Semaphorin-3A, Semaphorin III, Sema III, Semaphorin-D, Sema D, coll-1, collapsin 1, Hsema-I, Hsema-III, MGC133243, SEMA1, Sema3A, SEMAD, SEMAIII, SEMAL, semaphorin L, The CRMP

Target Details

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:	87.7 kDa same as Tris-Bis PAGE result.
-------------------	--

UniProt:	Q14563
----------	------------------------

Pathways:	Regulation of Cell Size
-----------	---

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
---------	--------

Buffer:	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
---------	---

Storage:	-80 °C
----------	--------

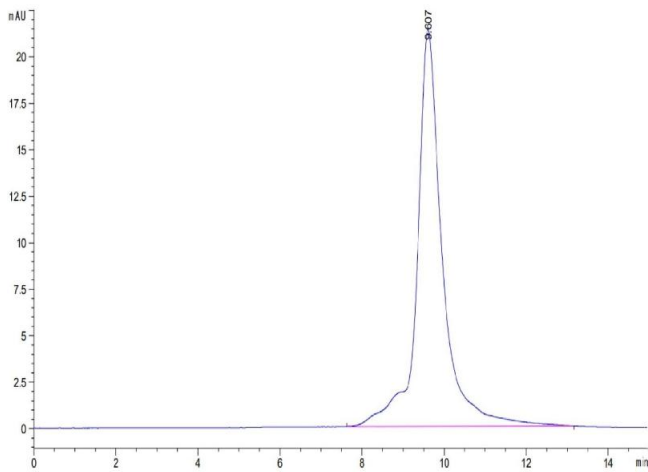
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated freeze-thaw cycles.
------------------	---

Expiry Date:	12 months
--------------	-----------



SDS-PAGE

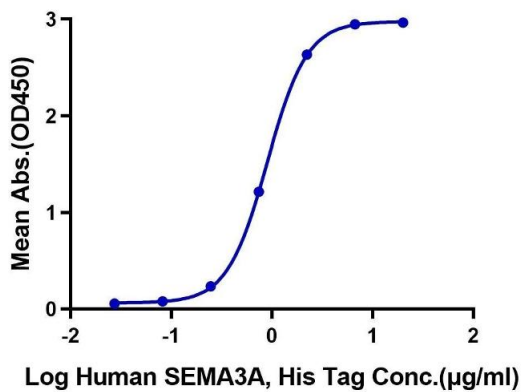
Image 1. Human SEMA3A on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

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

Human SEMA3A, His Tag ELISA
0.5µg Anti-SEMA3A Antibody, hFc Tag Per Well



ELISA

Image 3. Immobilized Anti-SEMA3A Antibody, hFc Tag at 5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human SEMA3A, His Tag with the EC50 of 0.9 µg/mL determined by ELISA.