

For Research Use Only

# Recombinant Mouse SEMA5A protein (rFc Tag) (HPLC verified)



Catalog Number: Eg2689

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Mouse SEMA5A protein Glu23-Thr765 (Accession# Q3UPZ0) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
20356

**Accession:**  
Q3UPZ0

**Predicted Molecular Mass:**  
109.6 kDa

**SDS-PAGE:**  
110-130 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Semaphorin 5A, is a member of the semaphorin family of proteins, which are known for their roles in axon guidance and the development of the nervous system. Sema5A is a bifunctional guidance cue that can exert both permissive and inhibitory properties toward developing axons and migrating cells. The protein is also implicated in the promotion of angiogenesis by increasing endothelial cell proliferation, migration, and inhibiting apoptosis.

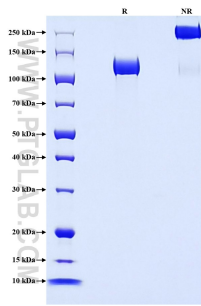
## References

1. Nagy GN. et al. (2024). Nat Commun.15(1):2723.
2. Sadanandam A. et al. (2010). Microvasc Res. 79(1):1-9.

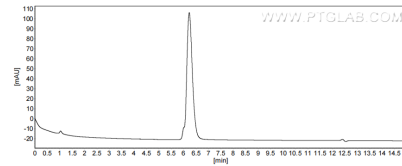
## Synonyms

Semaf, Semaphorin 5A, Semaphorin-5A, SemF

## Selected Validation Data



Purity of Recombinant Mouse SEMA5A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse SEMA5A was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

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