

For Research Use Only

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



Catalog Number: Eg2689

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg 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 μm 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

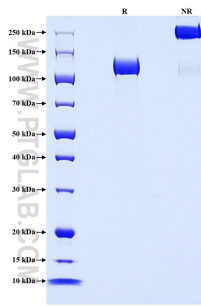
Semaf, Semaphorin 5A, Semaphorin-5A, SemF

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

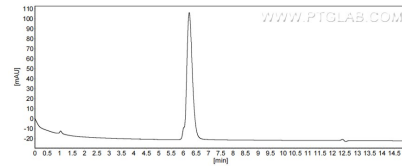
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Selected Validation Data



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.