

For Research Use Only

Recombinant Mouse ICAM5 protein (rFc Tag)



Catalog Number: Eg2868

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse ICAM5 protein Glu32-Pro832 (Accession# Q60625) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
15898

Accession:
Q60625

Predicted Molecular Mass:
111.4 kDa

SDS-PAGE:
130-160 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ 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

ICAM-5, also known as telencephalin, is a type I integral membrane glycoprotein of the immunoglobulin superfamily. It is specifically expressed in the postnatal excitatory neuronal cell bodies, dendritic shafts, and dendritic filopodia of the telencephalon. ICAM-5 functions in both the immune and nervous systems. ICAM-5 strongly stimulates neurite outgrowth. It is cleaved by matrix metalloproteases upon activation of glutamate receptors or degraded through endocytosis resulting in increased spine maturation. The cleaved soluble fragment of ICAM-5 is immunosuppressive, which may be important in neuronal inflammatory diseases.

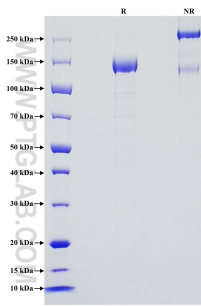
References

1. Arii, N et al. Microscopy research and technique vol. 46,1 (1999): 18-23.
2. Tian, Li et al. The Journal of cell biology vol. 178,4 (2007): 687-700.
3. Gahmberg, Carl G et al. Advances in neurobiology vol. 8 (2014): 117-32.

Synonyms

Icam3, ICAM-5, Intercellular adhesion molecule 5, Telencephalin, Tlcn

Selected Validation Data



Purity of Recombinant Mouse ICAM5 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.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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