

For Research Use Only

Recombinant Mouse PDGF R alpha/PDGFRα protein (mFc Tag)(HPLC verified)

Catalog Number: Eg1623



Basic Information

Species:
Mouse

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

Tag:
mFc Tag

Technical Specifications

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

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse PDGF R alpha protein Leu25-Ala528 (Accession# P26618-1) with a mouse IgG Fc tag at the C-terminus.

GeneID:
18595

Accession:
P26618-1

Predicted Molecular Mass:
83.0 kDa

SDS-PAGE:
85-125 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

Platelet-derived growth factor receptor alpha (PDGFRA, also known as CD140a) is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. PDGFRA is implicated in the regulation of embryonic development, tumorigenesis, cell proliferation, survival, and chemotaxis. Mutations in the PDGFRA gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers. PDGFRA and PDGFRB belong to receptor tyrosine kinase (RTK) family and function as receptors for platelet-derived growth factor (PDGF). PDGFRA is the only identified receptor to mediate PDGFA function in GBM.

References

- 1.Andrae J, et al. (2008) Genes Dev. 22(10):1276-312.
- 2.Ricci R, et al. (2015) Mod Pathol.
- 3.Gai QJ, et al. (2022). Signal Transduct Target Ther. 7(1):33.

Synonyms

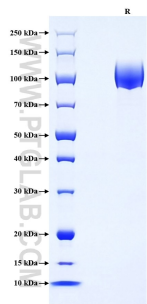
Alpha platelet-derived growth factor receptor, Alpha-type platelet-derived growth factor receptor, CD140 antigen-like family member A, CD140a, EC:2.7.10.1

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

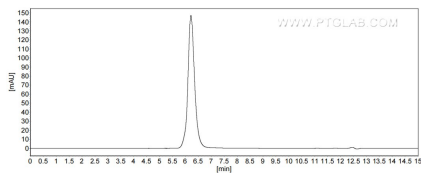
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Selected Validation Data



Purity of Recombinant Mouse PDGF R alpha was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) condition and stained using Coomassie blue.



The purity of Mouse PDGF R alpha/PDGFRα was greater than 90% as determined by SEC-HPLC.