

For Research Use Only

Recombinant Mouse PDGFR beta protein (rFc Tag)



Catalog Number: Eg1533

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 PDGFR beta protein Leu32-Val531 (Accession# P05622-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

18596

Accession:

P05622-1

Predicted Molecular Mass:

82.4 kDa

SDS-PAGE:

85-125 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

Platelet-derived growth factor receptor β (PDGFR beta) belongs to the family of receptor tyrosine kinases and is widely known for regulating cellular functions like proliferation, angiogenesis, migration, and invasion (PMID: 33744312). It is particularly involved in the development of the vascular system and early hematopoiesis. PDGFR beta signaling has been implicated in a range of diseases, including certain types of cancers where autocrine activation of PDGF signaling pathways is involved. It also plays a role in pathological mesenchymal responses in vascular disorders such as atherosclerosis, restenosis, pulmonary hypertension, and retinal diseases, as well as in fibrotic diseases, including pulmonary fibrosis, liver cirrhosis, scleroderma, glomerulosclerosis, and cardiac fibrosis (PMID: 18483217). PDGFR beta localizes to the plasma membrane that is abundantly expressed in stromal and mural cells (PMID: 27260205).

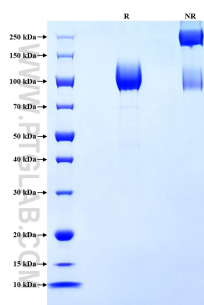
References

1. Yeeravalli R. et al. (2021). Hematol Oncol Stem Cell Ther. 14(4):275-289.
2. Andrae J. et al. (2008). Genes Dev. 22(10):1276-1312.
3. Zhao Y. et al. (2016). Cytotherapy. 18(7):816-827.

Synonyms

Beta platelet-derived growth factor receptor, Beta-type platelet-derived growth factor receptor, CD140 antigen-like family member B, CD140b, EC:2.7.10.1

Selected Validation Data



Purity of Recombinant Mouse PDGFR beta 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

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