

## PDGF R beta/CD140b Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	PDGF R beta;PDGFRB;PDGFR-2;PDGF-R-β;PDGF-R-beta;PDGFR-β;PDGFR-beta;PDGF R β;PDGF R β/CD140b
Protein Construction:	Leu33-Lys531
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5TUS0
Molecular Weight:	57.49 kDa (predicted). Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Cynomolgus PDGFR beta, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-PDGFRB Antibody, hFc Tag with the EC50 of 8.3ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Platelet-derived growth factor receptor (PDGFR) signaling is involved in proliferation and survival in a wide array of cell types. PDGFR-β signalling, via TGF-β signalling, may be crucial for restoration of BBB integrity after cerebral ischemia and therefore represents a novel potential therapeutic target.

Reference

Yue Z, et al. PDGFR- $\beta$  Signaling Regulates Cardiomyocyte Proliferation and Myocardial Regeneration. Cell Rep. 2019 Jul 23;28(4):966-978.e4. doi: 10.1016/j.celrep.2019.06.065. PMID: 31340157.

Shen J, et al. PDGFR- $\beta$  restores blood-brain barrier functions in a mouse model of focal cerebral ischemia. J Cereb Blood Flow Metab. 2019 Aug;39(8):1501-1515. doi: 10.1177/0271678X18769515. Epub 2018 Apr 9. PMID: 29629621; PMCID: PMC6681529.

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