

PDGFB Protein, Cynomolgus, Recombinant (mFc)

General Information

Synonyms:	platelet-derived growth factor beta polypeptide; platelet-derived growth factor β polypeptide
Protein Construction:	A DNA sequence encoding the cynomolgus PDGFB (EHH65851.1) (Ser82-Thr190) was expressed with the Fc region of mouse IgG1 at the N-terminus. Predicted N terminal: Asp
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G7PFK7
Molecular Weight:	38.9 kDa (predicted); 43 and 32 kDa (reducing conditions)

QC Testing

Biological Activity:	1. Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 5-25 ng/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus PDGFRB-His at 10 μ g/ml (100 μ l/well) can bind Cynomolgus S4-mFc3-PDGFB, The EC50 of Cynomolgus S4-mFc3-PDGFB is 3.6-7.4 ng/ml.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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-B (PDGFB) is necessary for normal cardiovascular development. The administration of PDGFB alone normalized tumor vasculature by increasing periendothelial coverage and vascular functionality.

Interestingly, this effect exerted by PDGFB was also observed in the presence of DAPT. So PDGFB is able to improve tumor vascularity and allows the anticancer action of DAPT in the tumor.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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