

# Recombinant Mouse Placenta growth factor/PLGF/PGF Protein

Catalog No.: RP01941 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	18654	P49764

### Tags

C-Avi&His

### Synonyms

Pgf; Plgf; Placenta growth factor; PIGF

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

**Calculated MW**   **Observed MW**

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact

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## Background

Placenta growth factor (PlGF) is a member of the PDGF/VEGF family of growth factors that share a conserved pattern of eight cysteines. Alternative splicing results in at least three human mature PlGF forms containing 131 (PlGF-1), 152 (PlGF-2), and 203 (PlGF-3) amino acids (aa) respectively. Only PlGF-2 contains a highly basic heparin-binding 21 aa insert at the C-terminus. Human PlGF-1 shares 56%, 55%, 74% and 95% aa identity with the comparable isoform of mouse, rat, canine, and equine PlGF, respectively. PlGF is mainly found as variably glycosylated, secreted, 55-60 kDa disulfide linked homodimers. Mammalian cells expressing PlGF include villous trophoblasts, decidual cells, erythroblasts, keratinocytes, and some endothelial cells. Circulating PlGF increases during pregnancy, reaching a peak in mid-gestation; this increase is attenuated in preeclampsia. However, deletion of PlGF in the mouse does not affect development or reproduction. Postnatally, mice lacking PlGF show impaired angiogenesis in response to ischemia.

## Basic Information

### Description

Recombinant Mouse Placenta growth factor/PLGF/PGF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala24-Pro158) of Mouse Placenta growth factor/PLGF/PGF (Accession #NP\_032853.1) fused with a Avi&His tag at the C-terminus.

### Bio-Activity

### Storage

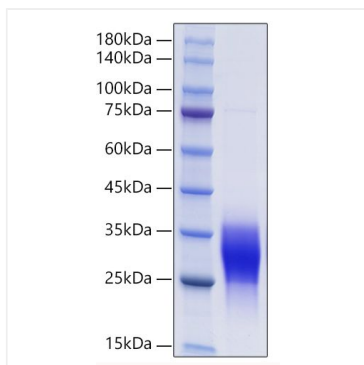
Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse Placenta growth factor/PLGF/PGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-35 kDa.